TA705.3 G8G46 2000 v.2 c.1

REPORT

VOLUME II

GEOTECHNICAL INVESTIGATION LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT SANTA CLARA COUNTY, CALIFORNIA

Prepared for
Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, California 95118-3686

April 28, 2000

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95-973017NB.00

APPENDIXA

Boring Logs from Previous Investigations (English Units)

TABLE 1
Existing Boring Log Index List
Lower Guadalupe River Flood Control Project
Santa Clara County, California

Boring Index	Consultants	Consultants' Project Number	Project Date	Project Name
AA-n	Woodward-Clyde	973061NA	Sept 1997	Preliminary Investigation, Fuel Storage and Dispensing Facility for American Airlines, San Jose
BSP-n	Woodward-Clyde	4327	Dec 1960	Soil Investigation for the Proposed Bay Shell Plant Storage Tanks, San Jose
GJJ-n	Gribaldo,Jacobs, Jones & Associates	E584-M1	Jan 1963	Soil Investigation for Guadalupe River Project, Reach No. 1, Preliminary Study of the West Bank of Alviso Slough and Proposed SPRR Retaining Wall, Santa Clara County
GRI-n	John V. Lowney & Associates	109-11 PA 9669	Jan 1981	Geotechnical Investigation, Guadalupe River Improvement, San Jose
GRIM-n	Woodward-Clyde	15482V	Oct 1982	Geotechnical Investigation, Guadalupe River Flood Control Improvements, Southern Pacific Railroad to the County Marina in Alviso
GRIV-n	Woodward-Clyde	4246	c. 1960	Soil Investigation for the Proposed Guadalupe River Project, Reaches 1 and 2, Santa Clara County
GROCS-n	John V. Lowney & Associates	109-12 PA 11516	June 1983	Geotechnical Investigation, Guadalupe River Outfall Control Structure, San Jose
GSB-n	Woodward-Clyde	16338V	Oct 1984	Geotechnical Investigation, Raising of Gold Street Bridge over the Guadalupe River in Alviso, San Jose
GSBOLD-n	Woodward-Clyde	4246	c. 1960	Gold Street Bridge Investigation as part of the 1960 Guadalupe River Project
GTPP-n	Parikh Consultants, Inc.	953009NE	c. 1996	Golden Triangle Pipeline Project, South Bay Water Recycling Program
HHP-n	Woodward-Clyde	91C0639R	Jan 1992	"Hetch-Hetchy Pipelines," Relocation of San Francisco Water Department, Bay Division Pipeline Numbers 3 and 4 at Guadalupe River and Coyote Creek, San Jose and Santa Clara
HHPA-n	PSC Associates, Inc.	88122.10	July 1988	Lick Mill Blvd. Extension, Santa Clara
OPS-n	Woodward-Clyde	16784V	c. 1985	Geotechnical Consultation, Oakmead Storm Pump Station Outfall Spillway

T/ E 1
Existing Boring Log Index List
Lower Guadalupe River Flood Control Project
Santa Clara County, California

Boring Index	Consultants	Consultants' Project Number	Project Date	Project Name
PRMAR-n	Soil Mechanics & Foundation Engineers	1140	Feb 1962	Soil Engineering Report for the Proposed Marina, Alviso, Santa Clara County
PYH-n	Cooper & Clark	33A	Jan 1960	Preliminary Site Investigation, Proposed Yacht Harbor, Alviso
RBPS-n	Woodward-Clyde	16171X	Feb 1987	Geotechnical Investigation, Retention Basin and Pump Station, San Jose International Airport, San Jose
REAL1-n	Woodward-Clyde	5135	June 1962	Soil Investigation, Guadalupe River Project, Realignment within Reach 1, Santa Clara
RHM-n	Woodward-Clyde	92C0526R	Nov 1992	Soil Investigation, Riparian Habitat Mitigation, Route 87
RREMB-n	John V. Lowney & Associates	109-1 PA 1233	Oct 1969	Soil Mechanics Investigation, SPRR Bridge and Embankment Raising over Guadalupe River, San Jose
SBYC-n	Woodward-Clyde	15482-W-2000	April 1983	Geotechnical Study, South Bay Yacht Club Relocation, Alviso
SDB-n	Woodward-Clyde	963010NA	c. 1997	Geotechnical Investigation, Skyport Drive Bridge, San Jose
SIL-n	Cooper & Clark	170-G	Oct 1982	Soil Investigation, Landslide Areas, Guadalupe River, San Jose
SJIA-n	Woodward-Clyde	16171V	Feb 1984	Geotechnical Investigation, San Jose International Airport, San Jose
SPRR-n	Jo Crosby & Associates	2706	Jan 1976	Soils Investigation for Guadalupe River, SPRR to Trimble Road, Project # 3015
SPRRB-n	Woodward-Clyde	4246	Jan 1961	Soil Investigation for the Proposed Southern Pacific Company Bridge, Alviso (in conjunction with soil investigation of Guadalupe River Project, Reaches 1 and 2)
TDB-n	Woodward-Clyde	16266V	May 1984	Geotechnical Study, Tasman Drive Bridge at Guadalupe River, Santa Clara/San Jose

Note:

1. The value "n" in the boring index column represents the Boring Number used in the corresponding project, such as 1 and B1.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-1

Date Drilled: 10/2/97
Type of Boring: 8-inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES; down hole hammer
Surface Elevation: 33.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1					**Gravelly lean CLAY (CL) with sand - FILL** Moderately compacted, damp, brown and light brown with some black (CH) inclusions, fine gravel, well graded sand				
	2	66				FILL	14	111	11330	
5	3	14	>4.5			**Lean CLAY (CL)** Stiff, moist, brown	16	102	2650	
10	4	33	2.3 2.3			**Fat CLAY (CH)** Very stiff, moist, black	28	93	4940	
						Lean to fat CLAY (CL/CH) Very stiff, moist, gray, trace fine sand				
						Lean CLAY (CL) Stiff, moist, gray and brown to reddish brown mottled, trace fine sand				
15	5	18	3.0				24	102	790	Sampler was wet
	6	15					21	106		
20						**Silty SAND (SM)** Medium dense, wet, gray and brown mottled, fine sand	20	108		#200 WASH: +#4=0 -#200=37%
25	7	14	1.5			**Lean CLAY (CL) with sand** Stiff, moist, gray and brownish gray mottled, fine sand, less plastic at 25 feet	22			
						Silty SAND (SM) Medium dense, wet, brown and gray, fine sand				
30	8	22								No recovery - lot of water on sampler
35	9	27				**Lean CLAY (CL)** Stiff, moist, bluish gray, trace fine sand	21			Slough in auger before sample was taken, i.e. flowing sands
40	10	52								No recovery
	11	38				**Sandy SILT (ML)** Stiff, moist, bluish gray, fine sand	21			
45	12	39					25	98		
						BOTTOM OF BORING AT 45 FEET				

Station: 14+144 (meters) Offset: -199 (meters:positive=east) (598200.14/1872804.66)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

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LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-2

Date Drilled: 10/2/97
Type of Boring: 8-inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES US101; down hole hammer

Surface Elevation: 34.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1					**Gravelly lean CLAY (CL) with sand - FILL** Moderately compacted, damp, brown, fine gravel, well graded sand	9			LL=36 PI=15
	2	33				Dark brown and gray Encountered large obstruction at 4 feet FILL	11	121		Taped auger at joints for a water seal
5	3	21	3.8			**Lean CLAY (CL)** Very stiff, moist, brown, trace fine sand	17	110	4430	
	4	30	1.5			**Fat CLAY (CH)** Very stiff, moist, black, becoming gray at 9-1/2 feet	31	89	5260	
10						**Lean CLAY (CL) with sand** Stiff, moist, gray, brown and reddish brown mottled, fine sand ▽				
	5	19				Silty Sand (SM) lens - Medium dense, wet, gray and brown mottled, fine sand				
15			3.5			Medium	19	109	940	
	6	25	1.3			Trace sand	24	102	1840	
20										
	7	27				**Silty SAND (SM)** Medium dense, wet, bluish gray, fine sand, decrease in silt at 25 feet with some fine gravel	21	106		
25										
	8	12				**Lean CLAY (CL)** Medium, moist, bluish gray, trace fine sand	28			
30										
	9	31	1.0			Bluish gray and olive green mottled	29	95	890	
35						Some gray nodules				
	10	22	1.3			Bluish gray and reddish brown mottles, no nodules	21	106	1140	
40						Stiff, increase in plasticity				
	11	24	2.0				30	95	2580	
45						BOTTOM OF BORING AT 45 FEET				

Station: 14+191 (meters)   Offset: -180 (meters:positive=east)   (598189.22/1872853.93)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-3

Date Drilled: 10/2/97
Type of Boring: 8-inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES ; down hole hammer

Surface Elevation: 34.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					●	**Gravelly lean CLAY (CL) with sand - FILL** Moderately compacted, damp, brown, fine gravel, well graded sand				Concrete chunks up to 2' in diameter on surface near boring B-3
	1	52			●	Less gravel, brown and gray	11	122	20170	
5						FILL				
	2	23	>4.5		▨	**Lean CLAY (CL)** Very stiff, moist, brown, trace fine sand	13	113	4230	
10	3	25	3.5		▨		27			
					▩	**Fat CLAY (CH)** Very stiff, moist, dark brown to black, trace well graded sand				
15	4	15	1.5		▨	**Lean CLAY (CL)** Medium, moist, brown and reddish brown mottled. Dark gray and brownish gray with brown mottles, and increase in plasticity at 14 feet	41	79	1700	
20	5	12	0.5		▩	**Fat CLAY (CH)** Soft, moist, bluish gray, some organics and wood chunks relatively undecomposed	70	54	910	
					▨	**Lean CLAY (CL)** Soft, moist, bluish gray and olive green mottled, trace fine sand, trace small wood chunks				
25	6	2	0.8		▨		24	99	980	
	7	34			▦	**Well-graded SAND (SW)** Dense, wet, gray	10			
30						BOTTOM OF BORING AT 30 FEET				
35										
40										
45										

Station: 14+172 (meters) Offset: -149 (meters:positive=east) (598226.06/1872855.59)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-4

Date Drilled: 10/2/97
Type of Boring: 8-inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES ; down hole hammer

Surface Elevation: 32.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Gravelly lean CLAY (CL) with sand - FILL Moderately compacted, damp, brown, fine gravel, well graded sand				Trace concrete chunks up to 2' in diameter on surface near boring B-4
	1	38	>4.5			**Lean CLAY (CL) FILL** Moderately compacted, moist, brown and light brown, trace well graded sand	11	121	8350	
5	2	34	4.0				22	100	3150	
10	3	34	2.8			**Fat CLAY (CH) FILL** Moderately compacted, moist, dark brown and black	24	99	5940	
						Lean CLAY (CL) FILL Moderately compacted, moist, light brown Dark brown				
15	4	46				**Silty SAND (SM) with gravel - FILL** Moderately compacted, moist, bluish gray, well graded sand, trace burnt wood, slight organic odor, fine gravel FILL	10	126		Dry to 14' after drilling, caved to 14'
20	5	21				**Poorly graded SAND (SP-SM) with silt and gravel** Medium dense, wet, gray, fine gravel	12			+#4=29% -#200=6%
25	6	13				BOTTOM OF BORING AT 25 FEET				No recovery
30										
35										
40										
45										

Station: 14+160 (meters) Offset: -119 (meters:positive=east) (598256.74/1872862.84)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-5

Date Drilled: 10/2/97
Type of Boring: 8-inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES ; down hole hammer
Surface Elevation: 33.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Gravelly lean CLAY (CL) with sand - FILL Moderately compacted, damp, brown, fine gravel, well graded sand				
	1	54	>4.5							
						Lean CLAY (CL) with sand - FILL Moderately compacted, moist, brown, fine sand	10	121		
5	2	24	4.5			FILL	14	111	3460	
						Lean CLAY (CL) Stiff, moist, brown				
	3	51	4.0			**Fat CLAY (CH)** Very stiff, moist, black, little well graded sand				
10							26	96	7110	
						Lean CLAY (CL) with sand Stiff, moist, gray, brown and reddish brown mottled, fine sand, trace fine gravel				
	4	23	3.0							
15							16	116	2210	
	5	27	1.0			4 inch Silty Sand (SM) lens at 19 feet				
20						Medium, trace fine sand	26	97	1940	
	6	61				**Well-graded SAND (SW-SM) with silt and gravel** Dense, wet, brown and gray, fine gravel				
25							10	126		
						Lean CLAY (CL) Stiff, moist, olive gray, trace fine sand				
	7	14								
30						BOTTOM OF BORING AT 30 FEET	23			
35										
40										
45										

Station: 14+125 (meters) Offset: -128 (meters:positive=east) (598269.79/1872828.86)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

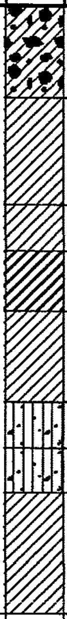
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-6

Date Drilled: 10/2/97
Type of Boring: 8-inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES

Surface Elevation: 32.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Gravelly lean CLAY (CL) FILL Damp, brown, fine gravel, some black (CH) inclusions				
5						**Lean CLAY (CL) FILL** Damp, light brown, trace fine sand and gravel, low plasticity FILL				
						Lean CLAY (CL) Moist, brown				
10	1					**Fat CLAY (CH)** Moist, black and gray				
	2					**Lean CLAY (CL)** Moist, brown and light brown				
15	3 4					**Sandy SILT (ML)** Moist, bluish gray, trace organics, fine sand				
	5					**Sandy SILT (ML)** Moist, dark brown, fine sand				
20						**Lean CLAY (CL)** Moist, dark bluish gray with light gray mottles Some organics and wood, trace light gray nodules BOTTOM OF BORING AT 20 FEET Boring dry ATD				
25										
30										
35										
40										
45										

Station: 14+173 (meters)   Offset: -130 (meters:positive=east)   (598241.21/1872867.09)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: BSP-1

Date Drilled: 11/8/60
Type of Boring: 6-inch Power Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From WCS Job #4327 (12/60) - Proposed Bay Shell Plant Storage Tanks

Surface Elevation: -2.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	18				**CLAYEY SAND** Medium dense, damp, yellow, with rocks, shells and concrete	11	109		
						SANDY CLAY Hard, moist, gray-yellow, with rocks and concrete blocks ▽				
5	2	42				**CLAYEY SAND** Dense, black, with rocks FILL	9	113	1000	
10	3	4				**SILTY CLAY** Soft to firm, blue-gray, with vegetation	54	67	940	
15	4	8				**very SANDY CLAY with fine GRAVEL** Stiff, medium gray Grading	24	102	1000	
20						**CLAYEY SAND** Medium dense, yellow				
	5	12				**SILTY CLAY** Stiff, orange-gray	30	94	2180	
25						**CLAYEY SAND** Loose to medium dense, yellow				
30 35						**SILTY CLAY** Stiff, tannish-gray	31	92	1680	
40	6	8				**CLAYEY SAND** Loose to medium dense, yellow Grading				
	7	20				**coarse SAND and fine GRAVEL** Medium dense, yellow				
45						**fine SAND** Medium dense, yellow BOTTOM OF BORING AT 44 FEET	21	105		

Station: 6+905 (meters) Offset: -133 (meters:positive=east) (603347.93/1869122.62)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: BSP-2

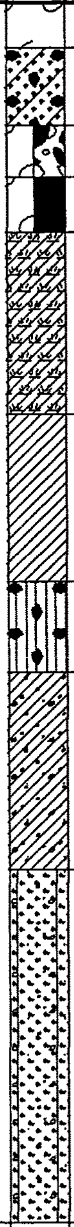
Date Drilled: 11/8/60

Type of Boring: 6-inch Power Auger

Hammer/drop (lb/in): 140lb/30in

Remarks: From WCS Job #4327 (12/60) - Proposed Bay Shell Plant Storage Tanks

Surface Elevation: -2.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					SHELLS Medium dense, dry to damp, white-gray				
	1	24			**CLAYEY SAND with ROCKS** Dense, tan	11	121	4550	
5					**SHELLS and ROCKS** Medium dense, gray-white ∇				
	2	7			**SHELLS and ASPHALT** Loose, dark gray FILL	32	80	500	
10	3	4			**SILTY CLAY** Firm, medium gray, with vegetation, compressible	58	63	750	
15	4	9			**SILTY CLAY** Stiff, medium gray and yellow, with some vegetation	25	100	2670	
20	5	4			**CLAYEY SILT** Loose, medium yellow, with some gravel	26	98	440	
25					**SANDY CLAY** Stiff, orange and light gray				
30	6	9			**SILTY SAND** Loose to medium dense, medium yellow	22	109		
35									
	7	16				28	104		
40					BOTTOM OF BORING AT 40 FEET				
45									

Station: 6+910 (meters) Offset: -98 (meters:positive=east) (603380.96/1869135.93)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

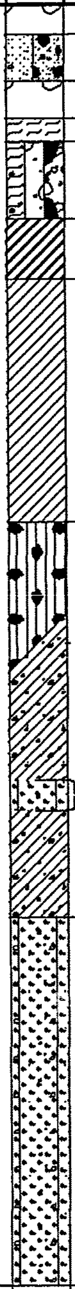
Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: BSP-3

Date Drilled: 11/8/60
Type of Boring: 6-inch Power Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From WCS Job #4327 (12/60) - Proposed Bay Shell Plant Storage Tanks
Surface Elevation: -3.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	>100			**SHELLS** Medium dense, dry, white-gray	4			
					SAND and ROCKS Very dense, damp, medium brown				
					∇				
					SHELLS Medium dense, damp, white-gray				
5	2	10			**WOOD**	47	65		
	3	5			**SAND, ROCKS, SHELLS and WOOD** Loose to medium dense				
					FILL				
10					**SILTY CLAY** Firm, medium blue-gray	35	88	1740	
					SILTY CLAY Stiff, dark gray and brown				
	4	9			Lighter in color	31	99	2740	
15					Yellowish-gray				
	5	13			**CLAYEY SILT** Medium dense, with some 1 inch gravel	25	99	2780	
20					Grading				
					SANDY SILTY CLAY Stiff, orange and tan				
25	6	3				22	105	2800	
					Thin Silty Sand lens				
30					**SILTY SAND** Loose to medium dense, medium yellow				
35	7	8				26	101		
40									
					BOTTOM OF BORING AT 42 FEET				
45									

Station: 6+895 (meters)   Offset: -61 (meters:positive=east)   (603422.23/1869122.56)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-1

Date Drilled: 11/12/62
Type of Boring: Unknown
Hammer/drop (lb/in): Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 2.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					●	**Sandy GRAVEL - FILL** Moderately loose, wet, brown ⊻				
5					●	FILL				
					▨	**Silty CLAY** Moderately stiff, wet, black				
	1	15			▨		30	92		
10					▨					
					▨	**Sandy CLAY** Medium stiff, moist, mottled reddish brown and gray, laminated				
	2	25			▨					No sample
15					▨					
	3	18			▨		28	97		
20					▨					
					●	**Gravelly SAND** Dense, moist, gray				
	4	41			●					
					▨	**Silty SAND** Dense, moist, reddish brown				
25										
					▨	**Sandy CLAY** Moderately soft, moist, blue-gray, fine-grained				
	5	14			▨		27	100		Boring date unknown, ~~date in~~ heading refers to date water level read.
						BOTTOM OF BORING AT 29 FEET				
30										
35										
40										
45										

Station: 6+582 (meters)
Offset: 166 (meters:positive=east)
(603780.06/1869199.12)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-2

Date Drilled: 11/12/62
Type of Boring: Unknown
Hammer/drop (lb/in): Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 7.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	10				**Sandy SILT - FILL** Moderately firm, moist, light brown ▽	16	99		
	2	1				**SAND and Sea Shells** Very loose, wet, gray	29	89		
5						FILL ↑				
						Sandy CLAY Medium firm, wet, mottled reddish brown, with fine gravel				
10										
	3	13					25	99		
15						**Silty SAND** Dense, moist, reddish brown				
	4	23					18	112		Boring date unknown, date in heading refers to date water level read.
20						BOTTOM OF BORING AT 19 FEET				
25										
30										
35										
40										
45										

Station: 6+453 (meters) Offset: 78 (meters:positive=east) (603910.94/1869072.06)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

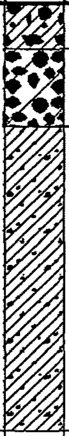
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-3

Date Drilled: 12/12/62
Type of Boring: Unknown
Hammer/drop (lb/in): Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 9.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Gravelly CLAY Firm, moist, reddish brown				
	1	8								
						Clayey GRAVEL ▽ Dense, moist, black	24	99		
	2	21					22	105		
5						**Sandy CLAY** Medium stiff, moist, brown				
	3	12					22	116		
10						Increasing fine SAND content				
	4	16					22	105		Boring date unknown, ~~date in~~ heading refers to date water level read.
15						BOTTOM OF BORING AT 14 FEET				
20										
25										
30										
35										
40										
45										

Station: 6+301 (meters)
Offset: 87 (meters:positive=east)
(604055.02/1869010.85)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

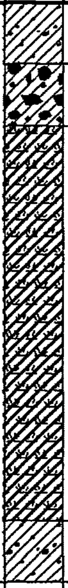
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-4

Date Drilled: 12/12/62
Type of Boring: Unknown
Hammer/drop (lb/in): Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 8.5 feet (approx.)



Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
1	11			**Sandy CLAY - FILL** Moderately firm, moist, brown	11	113		
2	5			**Gravelly CLAY - FILL** Medium firm to soft, moist, mottled brown and gray FILL	31	86		
3	1			**Sandy CLAY** Soft, wet, black, with organics and fine sand	61	70		
4	1			Organics	58	60		
5	20			**Sandy CLAY** Stiff, moist, mottled reddish brown and gray	20	110		Boring date unknown, date in heading refers to date water level read.
				BOTTOM OF BORING AT 19 FEET				

Station: 6+138 (meters)
Offset: 32 (meters:positive=east)
(604176.28/1868868.42)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-5

Date Drilled: 12/12/62
Type of Boring: Unknown
Hammer/drop (lb/in): Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: -0.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					●	**Sandy GRAVEL** Moderately loose, moist, brown				
	1	4			●	**Clayey GRAVEL** ▽ Medium loose, wet, black				No sample
5					▨	**Silty CLAY** Medium stiff, moist, black				Boring date unknown, date in heading refers to date water level read.
10 15 20 25 30 35 40 45						BOTTOM OF BORING AT 8 FEET				

Station: 6+542 (meters) Offset: 143 (meters:positive=east) (603825.58/1869167.82)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-6

Date Drilled: 12/12/62
Type of Boring: Unknown
Hammer/drop (lb/in): Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 6.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					●	**COARSE GRAVEL** ▽				
5					●	**Sandy GRAVEL** Moderately loose, moist, brown				
					▨	**Silty CLAY** Medium stiff, moist, black				
10						BOTTOM OF BORING AT 8 FEET				Boring date unknown, date in heading refers to date water level read.
15										
20										
25										
30										
35										
40										
45										

Station: 6+615 (meters) Offset: 189 (meters:positive=east) (603694.36/1869257.22)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

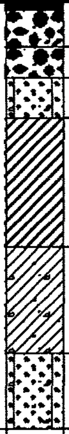
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-7

Date Drilled: 3/1/62
Type of Boring: Unknown
Hammer/drop (lb/in): Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963) Elevation estimated from GJJ-1.

Surface Elevation: 2.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						**3 inches P.M.S. over 15 inches Baserock**				
						Sandy GRAVEL Dense, moist, black ▽				
	1	2								
	2	3				**Silty SAND** Loose, wet, black				No sample
5						**Silty CLAY** Moderately stiff, wet, black	34	90		
	3					**Sandy CLAY** Moderately stiff, moist, yellow brown	27	97		
10										
						Silty SAND Moderately dense, wet, tan				Boring date unknown, date in heading refers to date water level read.
15						BOTTOM OF BORING AT 14 FEET				
20										
25										
30										
35										
40										
45										

Station: 6+610 (meters)
Offset: 233 (meters:positive=east)
(603761.86/1869269.59)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB1

Date Drilled: 10/6/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 10.8 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		46				**SANDY CLAY (CL) with gravel - FILL** Very stiff, brown	10			-#200=60%
5		9		1.1		**SANDY SILT (ML) FILL** Stiff, brown	19			-#200=71%
10		6				**CLAYEY SILT (MH) FILL** Firm, gray, Bay Mud, mixed with fill	19			
15		7				**GARBAGE - FILL** Consisting primarily of paper, with some glass fragments FILL	123			
20		p		0.9		**CLAYEY SILT (MH)** Firm, gray, Bay Mud	49			
25		7		0.9			22			
30		5				**SILTY SAND (SM)** Loose, gray	21			-#200=32%
35		8		1.6		**SILTY CLAY (CL)** Stiff, brown and gray BOTTOM OF BORING AT 35 FEET	34			
40										
45										

Station: 7+000 (meters)   Offset: 61 (meters:positive=east)   (603519.04/1869255.04)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB10

Date Drilled: 10/8/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 8.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	▯	9			▨	**SANDY CLAY (CL)** Stiff, brown	11			
5	▯	5		1.3	▨		24			
					▥	**CLAYEY SILT (MH)** Firm, gray				
10	▯	3		0.8	▥		26			
					▥	Stiff				
15	▯	12		2.0	▥		31			
					▨	**SILTY CLAY (CL)** Hard, brown				
20	▯	17		4.1	▨		21			
						BOTTOM OF BORING AT 20 FEET				
25										
30										
35										
40										
45										

Station: 7+458 (meters)   Offset: 74 (meters:positive=east)   (603443.21/1869707.23)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB2

Date Drilled: 10/6/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 8.2 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		11				**CLAYEY SAND (SC)** Stiff, brown	15			-#200=49%
5		9					17			
10		3		0.4		**CLAYEY SILT (MH)** Soft, gray to dark gray, Bay Mud	61			
						Firm				
15		p		1.0			25			
20		p		0.6			38			
25		p		0.6			77			
30		p		0.6			75			
35		6		0.8			68			
40		7		0.9			51			
						SAND (SP-SM) Loose, gray, fine grained, with some silt				
45		p					28			-#200=7%

Station: 7+119 (meters) Offset: 81 (meters:positive=east) (603516.08/1869375.46)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRI-EB2

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						BOTTOM OF BORING AT 48-1/2 FEET NOTE: Augers were advanced to 48.5 feet, but inflow of sand prevented further sampling				
50										
55										
60										
65										
70										
75										
80										
85										
90										
95										

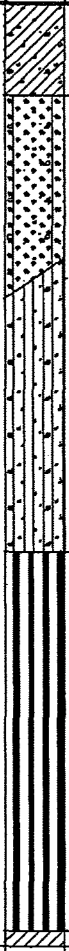
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB3

Date Drilled: 10/6/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 7.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		15			**SANDY CLAY (CL)** Stiff, brown	6			-#200=61%
5		12			**SILTY SAND (SM)** Medium dense, brown Grading to Sandy Silt (ML)	14			-#200=46%
10		p			**SANDY SILT (ML)** Medium dense, brown	15			-#200=50%
15		p				16			-#200=66%
20		p			**CLAYEY SILT (MH)** Stiff, gray, Bay Mud Stiff to firm	29			
25		p		1.0		28 28			
30		p		1.4	**SILTY CLAY (CL)** Stiff, light brown BOTTOM OF BORING AT 31 FEET	26			
35									
40									
45									

Station: 7+031 (meters)
Offset: -76 (meters:positive=east)
(603379.23/1869258.84)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB4

Date Drilled: 10/6/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)
Surface Elevation: 13.6 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		26			░	**SILTY SAND (SM)** Medium dense, brown	26			-#200=37%
					▨	**SILTY CLAY (CL)** Stiff, dark brown				
5		16			▨		17			
					▥	**CLAYEY SILT (MH)** Very stiff, dark gray				
10		10		2.9	▥		25			
					▥	Stiff				
15		p		1.4	▥		22			
					▥	Firm				
20		p		0.6	▥		40			
					▥	Stiff				
25		p		1.7 2.4	▨	**SILTY CLAY (CL)** Stiff, brown	32 20			
						BOTTOM OF BORING AT 25 FEET				
30										
35										
40										
45										

Station: 7+147 (meters)
Offset: -36 (meters:positive=east)
(603395.51/1869380.43)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB5

Date Drilled: 10/6/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 13.6 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		37				**CLAYEY SAND (SC)** Dense, brown	8			-#200=36%
						SILTY CLAY (CL-CH) Hard, black				
5		20		>5.0			21			
						Very stiff				
10		p		2.8			24			
						CLAYEY SILT (MH) Gray, Bay Mud				
15		p				No sample recovered, Bay Mud on outside of sampler				
						SILTY CLAY (CL) Very stiff, brown				
20		p		3.0		BOTTOM OF BORING AT 20 FEET	27			
25										
30										
35										
40										
45										

Station: 7+236 (meters) Offset: -51 (meters:positive=east) (603363.90/1869464.89)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB6

Date Drilled: 10/8/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 13.7 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		34				**SILTY SAND (SM)** Medium dense, brown	5			-#200=22%
						SANDY SILT (ML) Medium dense, brown, non-plastic				
5		16					16			-#200=58%
10		p					9			-#200=51%
						CLAYEY SILT (MH) Firm, gray, Bay Mud				
15		p		0.6			60			
20		16		0.7		**ORGANICS** Black, mostly wood, strong "turpentine" odor	35 36			
						CLAYEY SILT (MH) Soft, gray, Bay Mud				
25		p		0.5			45			
						Very soft				
30		p		0.2			85			
						Soft				
35		p		0.5			79			
						Firm				
40		p		0.8			67			
						Very soft				
45		p		0.2			59			

Station: 7+512 (meters)   Offset: -42 (meters:positive=east)   (603318.64/1869734.51)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRI-EB6

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Soft				
		p		0.3						
50							59			-#200=81%
						Becoming sandy at 50 feet	33			
						Firm				
		p		0.7						
55						Brown Silty Clay at tip of sampler	33			
						BOTTOM OF BORING AT 55 FEET				
60										
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB7

Date Drilled: 10/8/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)
Surface Elevation: 9.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		8			**SANDY SILT (ML)** Firm, brown, non-plastic	15			-#200=86%
		8		1.1	**CLAYEY SILT (ML-MH)** Stiff, brown				
5						42			
					Grading to Sandy Silt **SANDY SILT (ML-MH)** Soft, brown				
10						24			-#200=51%
		3			**ORGANICS** Black, mostly wood fibers, strong odor				
15						64			
					CLAYEY SILT (MH) Firm, gray, Bay Mud				
		6		0.5					
20						61			
		5		0.6					
25						82			
		p		0.5					
30						75			
		p							
35						49			
					Stiff				
		p		1.2					
40						25			
		20		2.8	**SILTY CLAY** Brown				
45					BOTTOM OF BORING AT 45 FEET	33			

Station: 7+774 (meters) Offset: -38 (meters:positive=east) (603198.48/1869935.79)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB8

Date Drilled: 10/8/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)
Surface Elevation: 11.2 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	▯	16			▨	**SANDY CLAY (CL)** Stiff, brown	13			-#200=60%
					▨	Very stiff				
5	▯	23			▨		19			-#200=63%
					░	**CLAYEY SAND (SC)** Firm, dark brown, organic odor				
10	▯	7			░		21			-#200=40%
					▨	**SANDY CLAY (CL)** Very stiff, brown-gray				
15	▯	18			▨		17			-#200=51%
					▥	**CLAYEY SILT (MH)** Firm, gray, Bay Mud				
	▯	20		0.6	░	**SILTY SAND (SM)** Medium dense, gray	24			
20						BOTTOM OF BORING AT 20 FEET	24			-#200=47%
25										
30										
35										
40										
45										

Station: 7+972 (meters) Offset: 42 (meters:positive=east) (603059.25/1870095.88)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB9

Date Drilled: 10/8/80
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)
Surface Elevation: 11.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	▯	11		4.4	▨	**SANDY CLAY (CL)** Hard, brown	16			-#200=73%
5	▯	6		0.8	▥	**CLAYEY SILT (MH)** Firm, gray, Bay Mud	31			
10	▯	15		2.8	▨	**SILTY CLAY (CL-CH)** Very stiff, gray to black	21			
15	▯	10		2.8	▨		27			
20	▯	7		1.1	▨	**SANDY CLAY (CL)** Stiff, brown	18			
						BOTTOM OF BORING AT 20 FEET				
25										
30										
35										
40										
45										

Station: 7+695 (meters)
Offset: 49 (meters:positive=east)
(603316.59/1869938.26)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-1

Date Drilled: 10/20/82
Type of Boring: 6 inch Auger to 5'/Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: 8.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▨	**SILTY CLAY (CH) FILL** Poorly compacted, damp, brown and gray, with traces of coarse sand, roots and zones of fine sand				
	1	5			▨	Moist, brown-gray	32	82	3215	
5					░	**SANDY CLAY (CL-SC) FILL** Poorly compacted, moist to wet, gray, with gravel ▽ 10/26/82 ▼				
					░	**SAND (SW)** Loose, brown and gray, with fine gravel FILL				
	2	4			▨	**SILTY CLAY (CH)** Very soft, dark gray to black				
10	3	2			▨	(BAY MUD)	56	66		
					▨	Black				
15	4	4			▨					
					░	With coarse sand, fine gravel, wood splinters				
					░	Soft, gray				
20	5	19			▨	**SILTY CLAY (CH)** Medium, brown-gray and gray mottled, with some cemented nodules, stiff after 20 feet	33 22	86 103	1364 3941	

Station: 6+130 (meters)
Offset: 38 (meters:positive=east)
(604186.45/1868866.43)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-1

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	6	21								
25										
						GRAVELLY SAND (SP-GP) Medium dense, gray				
	7	21				**SILTY CLAY (CL)** Stiff, orange-brown and gray mottled with brown, with fine sand and traces of gravel				
30										
						More sandy				
	8	20				**SILTY SAND (SW-SM)** Medium dense, gray and brown, with fine gravel				
35	9	13								+#4=7% -#200=12%
						Silty clay (CL-ML)				
						Sandy silt (ML-SM)				
						SILTY CLAY (CL) Stiff, orange-brown and gray mottled				
40	10	15				**SILTY SAND (SC-SM)** Medium dense, brown and gray, with some clay	22	109		
	11	25				**SILTY CLAY (CL-CH)** Very stiff, brown mottled				
						BOTTOM OF BORING AT 43 FEET				
45										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-10

Date Drilled: 10/25/82
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 8.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▩	**HETEROGENEOUS FILL** Poorly compacted, damp to moist, brown, containing brick, sand, rock and concrete				
	1	15			▩		10	98		
					▩	Brown-gray, with broken asphalt				
5	2	19			▨	**SILTY CLAY (CL) FILL** Poorly to moderately compacted, moist, brown-gray	20	103		
					▨	10/26/82				
					▨	**SILTY CLAY (CH) FILL** Poorly compacted, wet, dark gray to black, with fine sand ▼				
10	3	25/ 2"			○ ○	4 inch concrete slab at 10 feet (old building slab?)	43			
					▩	Brick, shells and rock fragments in clay matrix FILL ↑				
	4	18			▨	**SILTY CLAY (CL-CH)** Very stiff, dark gray mottled with black, with traces of organic material	29	92	4870	
15					▨					
	5	30			▨	**SILTY CLAY (CL-CH)** Very stiff, brown and gray mottled, with cemented nodules	23	105	5940	
20						BOTTOM OF BORING AT 18-1/2 FEET				

Station: 6+261 (meters) Offset: 101 (meters:positive=east) (604097.34/1869004.29)

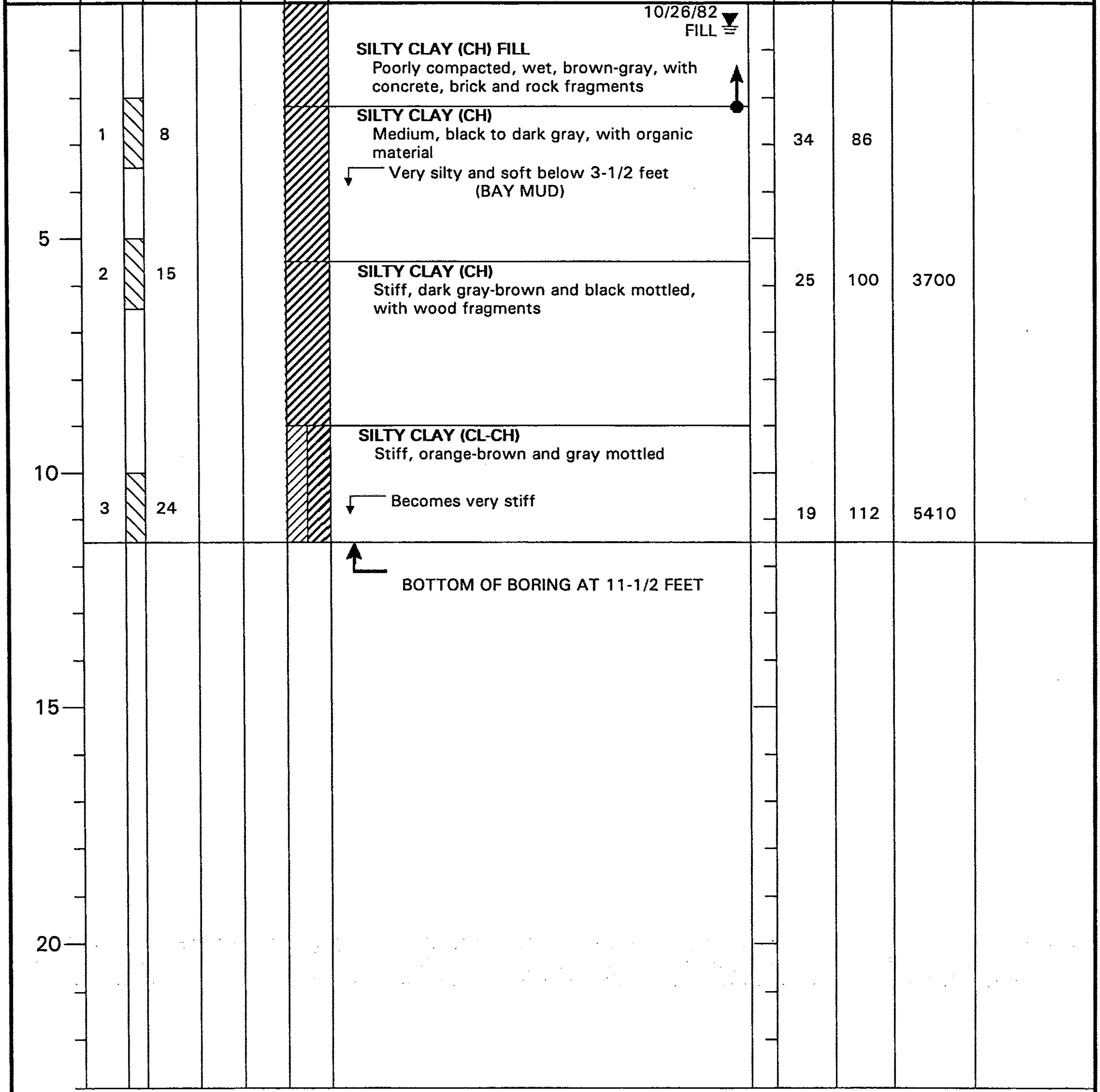
Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-11

Date Drilled: 10/25/82
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: -1.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▨	10/26/82 ▼ FILL **SILTY CLAY (CH) FILL** Poorly compacted, wet, brown-gray, with concrete, brick and rock fragments				
	1	8			▨	**SILTY CLAY (CH)** Medium, black to dark gray, with organic material Very silty and soft below 3-1/2 feet (BAY MUD)	34	86		
5	2	15			▨	**SILTY CLAY (CH)** Stiff, dark gray-brown and black mottled, with wood fragments	25	100	3700	
10	3	24			▨	**SILTY CLAY (CL-CH)** Stiff, orange-brown and gray mottled Becomes very stiff	19	112	5410	
						BOTTOM OF BORING AT 11-1/2 FEET				

Station: 6+327 (meters)   Offset: 100 (meters:positive=east)   (604038.30/1869034.03)

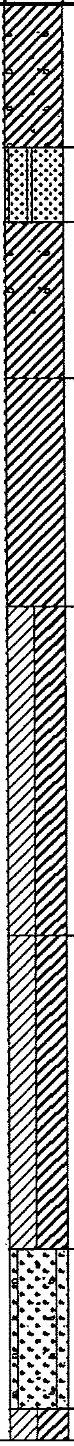
Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-12

Date Drilled: 10/26/82
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: -1.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						6 HRS AD **SILTY CLAY (CH) FILL** Poorly compacted, moist to wet, brown-gray, with shells, rock fragments and coarse sand FILL				
	1	6				**SILTY SAND (SP-SM)** Loose, gray and brown				-#200=12%
						SILTY CLAY (CH) Medium, gray to dark gray, with fine sand				
5	2	15				Stiff with decreasing sand content (BAY MUD)	29	95	3600	
						SILTY CLAY (CH) Stiff, gray with brown stains				
10	3	26				**SILTY CLAY (CL-CH)** Very stiff, orange-brown and gray mottled with brown, with lime streaks	21	108	5410	
						Stiff, brown and light brown				
15	4	13				**SANDY CLAY (CL-CH)** Medium, light brown mottled with orange and black	21	107	1310	-#200=59%
						Becoming light brown and brown				
20	5	-				**SILTY SAND (SM)** Loose, light brown				
						SILTY CLAY (CL-CH)				

Station: 6+498 (meters)
Offset: 95 (meters:positive=east)
(603866.98/1869106.71)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-12

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	6	12				Medium, gray and orange brown mottled with gray	29	94	1170	
25						Stiff				
						Very stiff, with tan				
30	7	32					19	110	5160	
	8	29								
35						BOTTOM OF BORING AT 35 FEET				
40										
45										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-13

Date Drilled: 10/26/82
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: -1.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY (CH) FILL Poorly compacted, moist, brown-gray, with shells and rock fragments FILL				
	1	7				**SILTY CLAY (CH)** Soft to medium, moist, dark gray, with organic material, sand lens at 2 feet (BAY MUD) 10/26/82	33	87	970	
5	2	15				**SILTY CLAY (CH)** Medium, moist, dark gray with brown, with roots ▼ Stiff	30	92	2920	
10	3	17				**SILTY CLAY (CL-CH)** Stiff, moist, light brown, orange-brown and gray, with nodules to 3/8 inch	19	109	3605	
15	4	20				Medium, (CL-ML)				
						SILTY SAND (SP-SM) Medium dense, gray and brown, fine-grained				
20	5	17				**SILTY CLAY (CL-CH)** Stiff, light brown and gray mottled	18	113	3310	
						CLAYEY SAND (SC-SP) Medium dense, light brown and gray mottled				LL=24 PI=10

Station: 6+531 (meters)
Offset: 114 (meters:positive=east)
(603833.25/1869135.87)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT | **Log of Boring: GRIM-13** (continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	6	12				Grading coarser				-#200=36% -#200=25%
25										
						SILTY CLAY (CL) Stiff, brown, with fine sand				
						Sand and fine gravel lens				
	7	13				Silty Sand (SM)	27	98	830	
						Grading to Clayey Silt (ML)				
30										
						SILTY SAND (SM) Medium dense, brown and gray				
	8	22								
35	9	18								
						Grading to Sandy Silt (ML-SM)				
						With some clay				
40										
	10	17				Becoming Clayey Silt (ML-CL), with fine sand, medium dense				
						BOTTOM OF BORING AT 42 FEET				
45										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-14

Date Drilled: 11/3/82
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 11.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SANDY SILT (ML-SM) FILL Poorly compacted, damp, brown, with inclusions of Silty Clay (CH) and some shell fragments				
	1	12				**SILTY CLAY (CH) FILL** Poorly compacted, moist, gray, with brick, organics and rock fragments	31	83		
5										
	2	12				With lenses of Silty Sand (SM) ▼	35	83	1220	
						Sandy zone (SP-SM)				
10						Sand lens				
	3	10								
						Sand lens				
						Moderately compacted FILL				
15						**SILTY CLAY (CL-CH)** Stiff, gray and dark gray mottled				
						BOTTOM OF BORING AT 18-1/2 FEET				
20										

Station: 6+564 (meters) Offset: 99 (meters:positive=east) (603789.97/1869129.81)

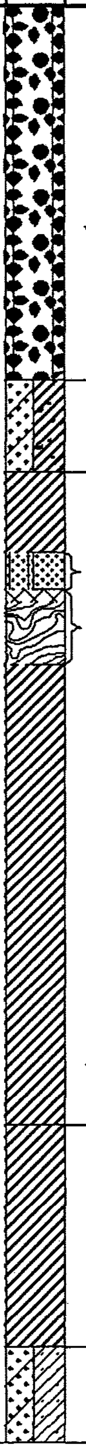
Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-2

Date Drilled: 10/21/82
Type of Boring: 6 inch Auger to 15'/Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 8.5 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY GRAVEL (GM) FILL Dry to damp, reddish-brown, with fragments of broken concrete, slightly clayey FILL				
5						Moist, brown to dark brown, with increasing clay 10/26/82				
						SANDY CLAY (CH-SC) Very soft to soft, gray (DREDGED BAY MUD FILL)				
	1	p				Sand (SP-SM)	44	76		
10						Massive wood (plywood in sampler tip)				
						SILTY CLAY (CH) Very soft, black, with wood fragments and lenses of very loose sand (SP-SM)				
15	2	p				Stiff	33	89	2280	
						SILTY CLAY (CH) Stiff, dark gray and brown mottled				
20	3	17					28	96	2630	
						SANDY CLAY (CL-SC) Stiff, orange-brown and olive gray mottled				

Station: 6+206 (meters) Offset: 45 (meters:positive=east) (604123.22/1868927.30)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-2

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	4	24					28	106	3120	-#200=54%
25										
						SAND (SP-SM) Medium dense, brown and gray, uniform and fine				
	5	15								
30										
	6	15								+#4=0% -#200=12%
						Sand (SP) clean, gray				
	7	15								
						With some fine gravel to 3/8 inch				+#4=3% -#200=6%
35										
	8	23								
40										
						SILTY CLAY (CL-CH) Hard, olive-gray and brown mottled, with calcareous nodules				
	9	53					16	117	16370	
45						BOTTOM OF BORING AT 45 FEET				

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-3

Date Drilled: 10/21/82
Type of Boring: 6 inch Auger to 7'/Rotary Wash
Hammer/drop (lb/in): 140lb/30in
Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 9.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					ASPHALT over BASE ROCK				
					SILTY GRAVEL (GM-GC) FILL Poorly compacted, damp, brown and gray				
					SILTY CLAY (CH) FILL Poorly to moderately compacted, damp, brown, with sand, fine gravel, and broken concrete				
5					Sandy, (CL), with rock fragments				
					10/26/82 ▼				
					CLAYEY GRAVEL (GC) FILL Poorly compacted, brown, with gravel to 3/4 inch				
10					Intermixed rock fragments, sandy zones and silty clay, gray-brown FILL				
					SILTY CLAY (CH) Very soft to soft, black (BAY MUD)				
15	1	p							
					Stiff	33	90	2240	
	2	19			**SILTY CLAY (CH)** Stiff, dark gray and gray-brown mottled	27	97	2290	
20					**SILTY CLAY (CL-CH)** Stiff, light brown and gray-brown, with fine sand				
	3	19			Grading to Clayey Sand (SC)				

Station: 6+281 (meters)
Offset: 98 (meters:positive=east)
(604077.74/1869011.43)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-3

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SAND (SP) Medium dense, brown and gray				
25										
						Gray, coarser				
	4	14								+#4=16% -#200=6%
						SILTY CLAY (CL-CH) Stiff, light brown and gray mottled, with fine sand				
						Silty sand lens, (SM)				
30										
	5	12				Less plastic (CL), medium, with interbedded layers of clayey sand	20	109	1364	-#200=69%
35						**SILTY SAND (SM)** Medium dense, gray and brown				
	6	14				Sandy silt (ML-SM), orange-brown with gray				
						SILTY CLAY (CL) Stiff, orange brown and gray mottled				
						BOTTOM OF BORING AT 36-3/4 FEET				
40										
45										

7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-4

Date Drilled: 10/22/82
Type of Boring: 6 inch Auger to 7-1/2'/Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 9.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY (CH) FILL Poorly compacted, damp to moist, brown, with some sand With rock fragments, sandy zones and shells				
	1	8					27	86		
						SILTY SAND (SP-SM) FILL Poorly compacted, moist, brown				
						CLAYEY GRAVEL (GC-CL) FILL Poorly compacted, moist to wet, brown				
5										
	2	6				**SILTY CLAY (CH) FILL** Poorly compacted, moist, gray and brown, with gravel	27	95	1950	
						SANDY CLAY (CH) FILL Medium, moist, dark gray to black, with shell fragments, becomes soft after 7-1/2 feet 10/26/82 (DREDGED BAY MUD FILL) FILL				
						SILTY CLAY (CH) Very soft to soft, dark gray to black, with organic material (BAY MUD)				
10										
	3	p					53	70	470	
	4	4				Sand lens	48	71	460	
15										
	5	7				Very silty, (MH)	44	75	540	
						Soft, black				
						SILTY CLAY (CL-CH) Stiff, gray, light gray and brown mottled, with calcareous nodules				
20										
	6	20					22	106	3950	
						SILTY CLAY (CL-CH) Very stiff, orange-brown and gray mottled				

Station: 6+421 (meters)   Offset: 83 (meters:positive=east)   (603946.42/1869060.93)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-4

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						with brown Sand lens				
25										
	7	38				Hard, with cemented nodules, (CL)	19	110	9600	
						Less plastic (CL), stiff				
30										
	8	15					21	107	3120	
						With fine sand				
35										
	9	21								
						BOTTOM OF BORING AT 37 FEET				
40										
45										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-5

Date Drilled: 10/22/82
Type of Boring: 6 inch Auger to 7-1/2'/Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 11.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					SANDY GRAVEL (GC-SC) FILL Moderately compacted, damp, gray, with gray-brown clay, with some cobbles				
	1	21				5	118		
5	2	19			Moist	7	107		
					SILTY CLAY (CL-CH) FILL Poorly to moderately compacted, moist, gray, with gravel, sandstone pieces, and shells, becomes (CH) after 7-1/2 feet 10/26/82				
					CLAYEY GRAVEL (GC) FILL Poorly compacted, brown, wet, with zones of gray silty sand (SP-SM) ▼				
10	3	14				18	107		
					SILTY CLAY (CH) FILL Poorly compacted, dark gray, with sand, gravel and shells FILL ↑				
15	4	12			**SILTY CLAY (CL-CH)** Medium, dark gray to black, very silty (BAY MUD)				
	5	11							
					SILTY CLAY (CH) Stiff, dark gray and brown mottled				
20	6	25*				27	96	3700	
					SILTY CLAY (CL-CH) Very stiff, orange-brown and brown mottled with gray				

Station: 6+519 (meters) Offset: 77 (meters:positive=east) (603837.52/1869096.46)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-5

(continued)

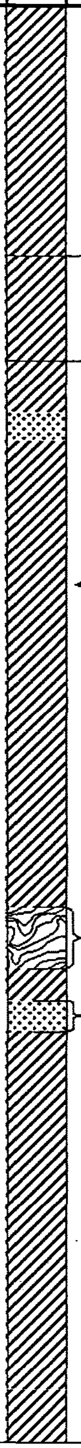
Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Less plastic (CL), gray-brown and light brown, with fine sand				
25	7	17					19	108	4140	
						Orange-brown and gray				
30	8	14								
						With coarse sand and fine gravel				
35						Stiff, orange-brown and gray-brown mottled with red				
	9	23					20	108	3702	
						BOTTOM OF BORING AT 37 FEET				
40										
45										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-6

Date Drilled: 11/3/82
Type of Boring: 6 inch Auger to 6-1/2'/Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 8.0 feet (approx.)

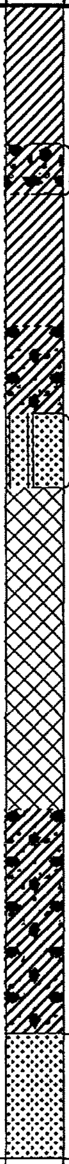
Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						**SILTY CLAY (CH) FILL** Poorly compacted, damp, brown-gray, with zones of silty sand (SM), roots and wood				
						Wet				
	1	4				11/8/82	44	75	930	
						SILTY CLAY (CH) FILL ▼ Poorly compacted, dark gray to black, with brown sand intermixed				
5										
	2	3				**SILTY CLAY (CH)** Soft, dark gray and black, with seams and lenses of fine sand throughout layer, with some organic material, black sand (SP) layer at 6-1/2 feet (DREDGED BAY MUD FILL)	62	62		
						Glass fragment noted in cuttings				
10										
	3	5					54	68	630	
15						With high concentration of organic material				
	4	6				Sand (SP)	31	87		
20						With wood fragments				
	5	5					57	64	880	

Station: 6+650 (meters) Offset: 156 (meters:positive=east) (603710.79/1869199.54)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-6

(continued)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Black, with gray lenses of silty clay (CL-ML)				
25						With gravel and fine sand				
	6	7					21 68	106		
						Very soft, black				
						Soft, with coarse sand and fine gravel				
30						Silty sand (SP-SM)				
	7	8				Alternating layers of silty clay (CL-ML) to (CH) and silty sand (SM-SP)	61	61	780	
35										
	8	10				With some coarse sand and cemented nodules in a clay matrix; fragments of coal and ceramic tile also noted				+#4=26% -#200=26%
						ESTIMATED BOTTOM OF DREDGED FILL				
						SAND (SP) Dense, gray and brown, with trace gravel				
40	9	44								
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-7

Date Drilled: 11/3/82
Type of Boring: 6 inch Auger to 6-1/2'/Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: 10.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY (CH) FILL Poorly compacted, moist, gray, with orange and brown staining and wood fragments				
	1	6				Wet	58	64	2000	
						11/8/82 ▼				
5	2	4				**SILTY CLAY (CH) FILL** Soft, dark gray, with wood and brown silty sand	62	60	930	
						SILTY CLAY (CH) FILL Soft, black to dark gray, with thin sand lenses				
10	3	7				(DREDGED BAY MUD FILL) Sand (SP)	33	86		
15	4	4				With traces of shells, wood Black sand lens	47	72	540	
20	5	6				Alternating layers of gray Silty Clay (CL-CH), black Silty Clay (CH), with Sand lenses (SP), with some wood	55	65	780	

Station: 6+706 (meters) Offset: 171 (meters:positive=east) (603658.12/1869221.59)

Project: 95-973017NB.00

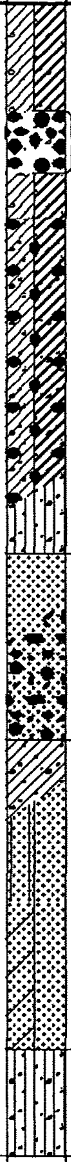
URS Greiner Woodward Clyde

Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-7

(continued)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
25					Sandy Gravel lens (GP), medium dense, black				
	6	8				52	68	730	
					Very soft, with gravel				
					Becoming soft with sand lenses				
30									
	7	12							
					Grading to Sandy Silt (ML)				
					SAND (SP) Medium dense, gray to black, with wood fragments				
					Becomes gravelly with depth				
					ESTIMATED BOTTOM OF DREDGED FILL				
35					**SANDY CLAY (CL)** Stiff, orange-brown and gray mottled, with some fine sand, some lime streaks				
	8	21							
					Sand (SP-SM)				
					With interbedded layers of Sandy Clay (CL)				
40					**SANDY SILT (ML)** Medium dense to dense, gray				
	9	30							
					BOTTOM OF BORING AT 41-1/2 FEET				
45									

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-8

Date Drilled: 10/25/82
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: 10.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▨	**SILTY CLAY (CL-ML) FILL** Moderately compacted, damp, red-brown	8	106	1364	
	1	16			▨	**SILTY CLAY (CL-CH) FILL** Moderately compacted, moist, gray-brown and gray, with brick fragments	21	103		
5	2	23			▨	**SILTY CLAY (CL) FILL** Moderately to well compacted, moist, orange-brown, tan and brown, with rock fragments	19	112	7060	
10	3	17			▨	**SILTY CLAY (CL) FILL** Stiff, moist, dark gray and black, with shell fragments and organic material	33	86	3020	
					▨	Dark gray and gray-brown				
15	4	21			▨	10/26/82 ▼	32	87	2490	
20					▨	FILL ↑				
	5	11			▨	**SILTY CLAY (CH)** Medium, black, with organic material (BAY MUD)	37	83	1510	
					▨	**SILTY CLAY (CL-CH)** Stiff, dark gray with brown				

Station: 6+172 (meters)   Offset: 138 (meters:positive=east)   (604214.16/1868976.92)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-8

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
25	6	17				**SILTY CLAY (CL)** Stiff, gray with orange and brown, with some lime streaks and nodules	23	102	3410	
						Brown and gray				
30	7	18								
35						Silty Sand (SM), brown and gray				
	8	12				**SANDY SILT (ML)** Medium dense, gray, with fine sand lenses				
	9	8				**SILTY CLAY (CL-ML)** Medium, gray				
40										
	10	21				Becoming more plastic (CL), stiff, gray with brown	23	102	2050	
						BOTTOM OF BORING AT 42 FEET				
45										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-9

Date Drilled: 10/25/82

Type of Boring: 6 inch Auger

Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: 7.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						HETEROGENEOUS FILL Poorly compacted, damp, brown and gray, comprised of a mixture of soils, rock fragments and broken concrete and asphalt				
	1	27				Moist	5	128		
5	2	28				With very high asphalt content				
						10/26/82				
10						**SANDY CLAY (CH) FILL** Very soft to soft, dark gray, with silt, 4 inch concrete slab at 10 feet (old building slab?) FILL				
						SILTY CLAY (CH) Medium, dark gray and black mottled				
	3	17.					33	89	1270	
15						BOTTOM OF BORING AT 14 FEET				
20										

Station: 6+224 (meters) Offset: 87 (meters:positive=east) (604124.67/1868975.47)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-1

Date Drilled: 10/17/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 22.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▨	**CLAYEY SAND** Loose, dry, brown, with some gravel				
5	1	9			▨	**SANDY SILTY CLAY** Stiff, dry, brown	14	91	3300	
	2	7			▨	**CLAYEY SILTY SAND** Loose, damp, brown	13	94		
10										
	3	4			▨	**SANDY SILTY CLAY** ∇ Soft to firm, dark gray	43	76	560	
15										
	4	5					45	76	750	
20										
	5	5			▨	**SANDY SILTY CLAY** Firm to stiff, dark gray	38	79	1240	
25										
	6	6					31	89	600	
					▨	**CLAYEY SILTY SAND** Loose, dark gray				
30						BOTTOM OF BORING AT 28-1/2 FEET				
35										
40										
45										

Station: 11+742 (meters)

Offset: 9 (meters:positive=east)

(600455.88/1872395.71)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

7/1/99 GUADE GUADE

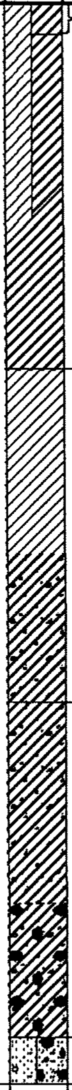
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-10

Date Drilled: 10/18/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 10.5 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Loose **SILTY CLAY** Stiff to firm, brown				
	1	7					14	89	4170	
5	2	5					16	92	1240	
10	3	5					37	83	1810	
						▽				
						SILTY CLAY Stiff, dark gray-brown				
15	4	7					29	95	2620	
						Sandy				
20	5	10				Firm	38	82	1180	
						SAND and CLAY layers Loose, dark gray, with organic material				
25	6	4					44	76	870	
30						Gravel				
35	7	38				**GRAVELLY SAND** Dense, dark gray	16	115	690	
						BOTTOM OF BORING AT 35-1/2 FEET				
40										
45										

Station: 9+434 (meters) Offset: 42 (meters:positive=east) (601942.04/1870918.81)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-11

Date Drilled: 10/19/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 8.2 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					Loose				
					SANDY SILTY CLAY Firm to stiff, dark brown				
	1	5				16	91	940	
5					Loose Clayey Silty Sand				
	2	5				34	83	1810	
10									
	3	7			**SANDY CLAY** Stiff, blue-gray, fine-grained				
15									
	4	7			**CLAYEY SAND** Loose, dark gray	24	102	1310	
20									
	5	10							
25									
					SAND and GRAVEL Very loose, black				
30									
	6	2			Stiff, gray-brown Clay	35	87		
35									
					BOTTOM OF BORING AT 37 FEET				
40									
45									

Station: 9+178 (meters) Offset: -55 (meters:positive = east) (601993.67/1870642.15)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

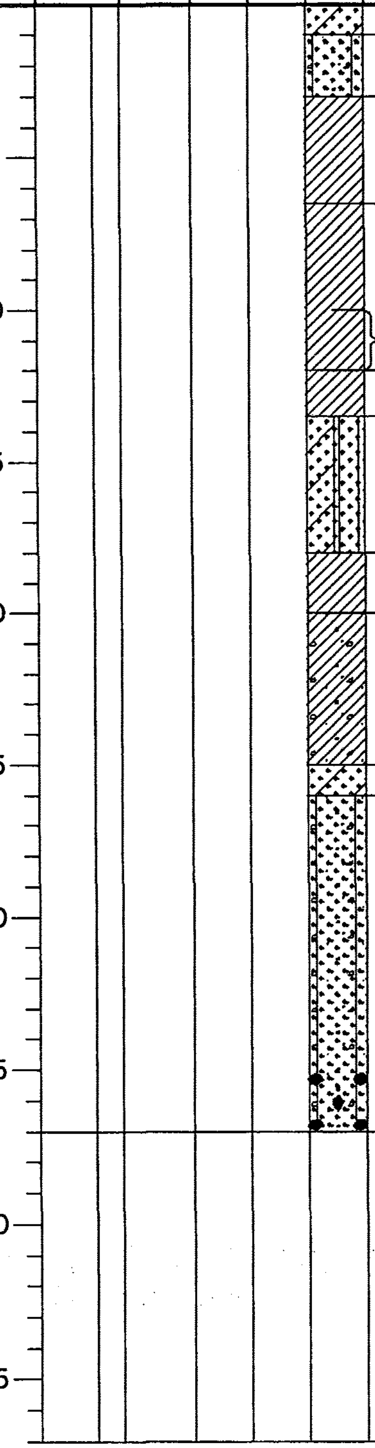
Log of Boring: GRIV-12

Date Drilled: 10/25/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 6.3 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks



CLAYEY SAND
Loose, moist, dark brown

SILTY SAND
Medium dense, dark brown

SILTY CLAY
Stiff, gray-brown

SILTY CLAY
Stiff, yellow-brown ⊻

Traces of lime nodules

SILTY CLAY
Stiff, gray-brown

CLAYEY SANDY SILT
Loose, gray-brown

SILTY CLAY
Stiff, brown

SILTY CLAY
Firm to stiff, gray-brown, with fine sand

CLAYEY SAND
Loose, gray-brown

SILTY SAND
Loose to medium dense, gray-brown

Gravel

BOTTOM OF BORING AT 37 FEET

Station: 8+984 (meters)
Offset: -42 (meters:positive=east)
(602164.28/1870533.48)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

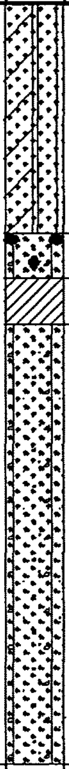
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-13

Date Drilled: 11/7/60
Type of Boring: 3-inch Wash
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: -1.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						**CLAYEY SAND to SILTY SAND** Loose, dark gray to black				
5	1 2						40	79	180	
						SILTY SAND Loose, dark green-gray, with fine gravel				
10						**SILTY CLAY** Soft, dark gray, with wood fragments				
						SILTY SAND Medium dense, gray to green-gray, fine-grained sand				
15										
20										
25						BOTTOM OF BORING AT 25 FEET				
30										
35										
40										
45										

Station: 8+813 (meters) Offset: 29 (meters:positive=east) (602344.67/1870494.63)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-14

Date Drilled: 10/18/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 7.8 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY Loose, damp, brown, with gravel				
	1	10				**SILTY CLAY** Stiff, damp, dark brown	22	102	5710	
5	2	14				**CLAY to SILTY CLAY** Stiff, damp, dark brown	20	110	1330	
						▽				
10	3	9								
						SILTY CLAY Stiff, tan, with some gravel				
15	4	5					25	102	1490	
20	5	10				**SANDY SILTY CLAY** Stiff, gray-brown	36	86	1740	
						CLAYEY SILTY SAND Loose, brown				
25										
	6	11					24	104	750	
30						**SAND and GRAVEL** Loose to medium dense, gray-brown				
35	7	33					17	110		
						BOTTOM OF BORING AT 35-1/2 FEET				
40										
45										

Station: 8+556 (meters) Offset: -55 (meters:positive=east) (602508.29/1870279.18)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-15

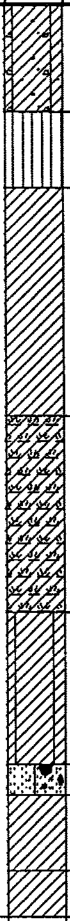
Date Drilled: 10/27/60

Type of Boring: 6-inch Auger

Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 4.8 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SANDY CLAYEY SILT Loose, moist, gray-brown, fine-grained				
5						**SILT to CLAYEY SILT** Loose, dark brown ▽				
10						**SILTY CLAY** Firm, gray-brown				
15						**CLAY with PEAT** Soft, dark gray				
20						**SILTY CLAY to CLAYEY SILT** Soft, dark gray				
25						**SILTY SAND and fine GRAVEL** Medium dense, dark blue-gray				
						CLAY Firm, dark blue-gray				
						SILTY CLAY Firm, green-gray				
30						BOTTOM OF BORING AT 30 FEET				
35										
40										
45										

Station: 8+450 (meters) Offset: -137 (meters:positive=east) (602548.64/1870151.46)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

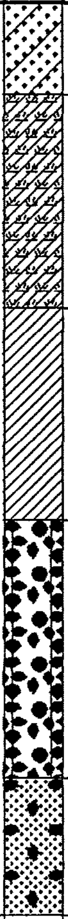
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-16

Date Drilled: 11/19/60
Type of Boring: 3-inch Wash
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 2.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1					**CLAYEY SAND** Loose, dark gray to black				
5						**SILTY CLAY with PEAT** Soft, dark gray				
	2									
10						**SILTY CLAY** Soft, dark gray				
15	3									
						SILTY GRAVEL Loose, gray to dark green-gray, fine-grained				
20										
25						**SAND** Medium dense, dark green-gray, with fine gravel				
30						BOTTOM OF BORING AT 30 FEET				
35										
40										
45										

Station: 8+377 (meters)
Offset: -12 (meters:positive=east)
(602680.15/1870213.26)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

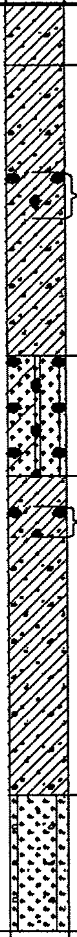
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-17

Date Drilled: 10/19/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 0.8 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SANDY CLAY Loose, brown				
						SANDY SILTY CLAY Stiff, gray-brown				
5	1	3					20	104	1310	
						Gravelly				
	2	13					27	99	4100	
10										
						CLAYEY SILTY SAND Medium dense to dense, brown, with gravel				
	3	38								
15										
						Gravelly **SANDY SILTY CLAY** Stiff, gray-brown				
	4	11					28	98	1240	
20										
	5	9					30	92	3110	
25										
						SILTY SAND Medium dense, gray-brown, fine-grained				
30	6	15					29	101		
						BOTTOM OF BORING AT 30-1/2 FEET				
35										
40										
45										

Station: 8+061 (meters)   Offset: -53 (meters:positive=east)   (602951.15/1870022.43)

Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

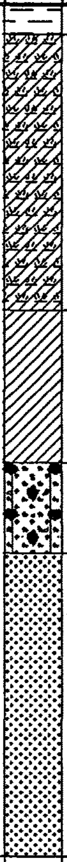
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-18

Date Drilled: 11/8/60
Type of Boring: 3-inch Wash
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: -5.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					ORGANIC SILT Loose, black				
	1				**SILTY CLAY with PEAT** Soft, dark gray				
5	2					92	47	860	
10					**SILTY CLAY** Very soft, dark gray				
	3					90	54	370	
15					**SILTY SAND** Loose, dark green-gray, with fine gravel				
	4	12							
					SAND Medium dense, dark green-gray				
20									
25									
					BOTTOM OF BORING AT 28 FEET				
30									
35									
40									
45									

Station: 7+959 (meters)   Offset: 50 (meters:positive=east)   (603075.88/1870099.66)

Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

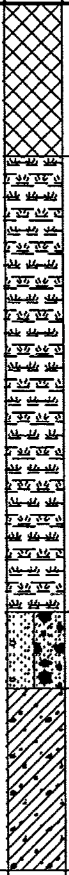
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-19

Date Drilled: 10/21/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 4.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					MISCELLANEOUS FILL Very loose				
					▽				
5					FILL				
					SILTY CLAY and PEAT Soft, gray				
	1	2				52	69	870	
10									
	2	1				77	55		
15									
	3	8			Firm	52	68	370	
20					**SAND and GRAVEL** Medium dense, gray, medium-grained sand				
	4	17			**SANDY SILTY CLAY** Very stiff, green-gray	28	100	3920	
25									
	5	12				24	102	2860	
					BOTTOM OF BORING AT 28-1/2 FEET				
30									
35									
40									
45									

Station: 7+742 (meters)   Offset: -45 (meters:positive=east)   (603215.28/1869911.23)

Project: 95-973017NB.00	***URS Greiner Woodward Clyde***	Sheet 1 of 1	Fig.

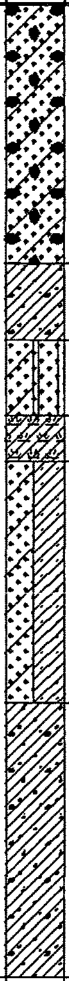
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-2

Date Drilled: 10/17/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 23.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
5 10 15 20 25 30 35 40 45										



CLAYEY SAND
Loose, dry, brown, with some gravel

SANDY SILTY CLAY
Soft, wet, brown

SILTY CLAYEY SAND
Loose, dark gray

SILTY CLAY
Soft, black, peaty, with shell fragments

SILTY CLAY to SANDY CLAY
Stiff to firm, dark gray

SANDY SILTY CLAY
Stiff, gray brown

Firm

Soft

BOTTOM OF BORING AT 32 FEET

Station: 11+526 (meters) Offset: -33 (meters:positive=east) (600661.16/1872305.23)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1 Fig.

7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-20

Date Drilled: 10/20/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 3.3 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY Firm, damp, brown				
						SANDY SILTY CLAY Stiff, damp, dark gray				
5						**SILTY SANDY CLAY** Very stiff, gray-brown ▽				
10										
						CLAYEY SAND Loose to medium dense, brown, medium-grained				
15						**SANDY SILTY CLAY** Stiff, gray-brown				
20										
25						**SANDY SILTY CLAY** Firm, green-gray				
30						**SAND and GRAVEL** Medium dense to dense, gray, medium-grained				
35						BOTTOM OF BORING AT 34 FEET				
40										
45										

Station: 7+650 (meters) Offset: 57 (meters:positive=east) (603352.16/1869902.04)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

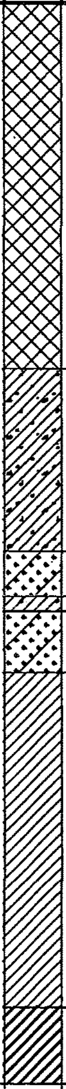
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-21

Date Drilled: 10/21/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 8.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						MISCELLANEOUS FILL Very loose				
						∇				
5										
10						FILL ↑				
						SILTY SANDY CLAY Very stiff, gray-brown				
	1	17					21	108	5710	
15										
						CLAYEY SAND Loose, brown, medium grained				
20	2	7				**SANDY CLAY** Firm, gray	22	107		
						CLAYEY SAND Medium dense, brown, medium-grained				
						SILTY CLAY Stiff, gray-brown				
25	3	11					29	94	3480	
						Soft to firm				
30										
						SILTY CLAY Stiff, blue-gray				
35	4	11					33	89	1620	
						BOTTOM OF BORING AT 35-1/2 FEET				
40										
45										

Station: 7+362 (meters) Offset: 27 (meters:positive=east) (603415.17/1869603.81)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-22

Date Drilled: 10/4/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 3.6 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						CLAY Stiff, moist				
5	1	3				**SILTY CLAY with PEAT** Very soft to soft, damp, black, with shells	62	61		
	2	5				**SILTY SAND** Loose, blue	94	46	500	
10 15 20	3	6				**SILTY CLAY with PEAT layers** Soft, gray	81			
25	4	25				**CLAY** Very stiff, green-brown	24	103	5540	
30						**SILTY CLAY** Stiff, brown				
	5	2				**SILTY SAND** Medium dense, (quick) brown	22	100	560	
35						BOTTOM OF BORING AT 34 FEET				
40										
45										

Station: 6+550 (meters) Offset: -72 (meters:positive=east) (603773.24/1868959.13)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

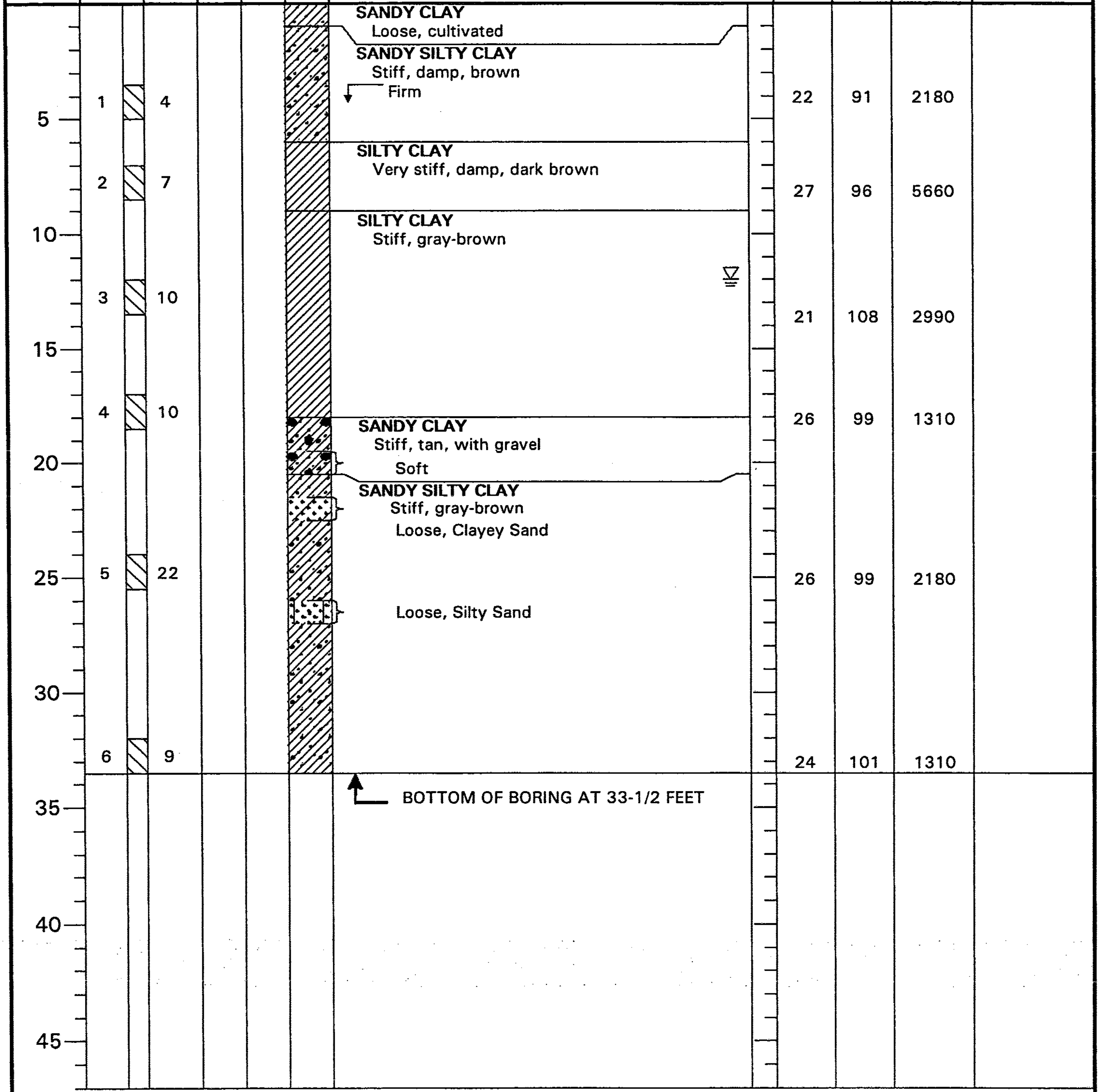
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-3

Date Drilled: 10/17/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 18.5 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					SANDY CLAY Loose, cultivated				
	1	4			**SANDY SILTY CLAY** Stiff, damp, brown Firm	22	91	2180	
	2	7			**SILTY CLAY** Very stiff, damp, dark brown	27	96	5660	
	3	10			**SILTY CLAY** Stiff, gray-brown ▽	21	108	2990	
	4	10			**SANDY CLAY** Stiff, tan, with gravel Soft	26	99	1310	
	5	22			**SANDY SILTY CLAY** Stiff, gray-brown Loose, Clayey Sand	26	99	2180	
					Loose, Silty Sand				
	6	9				24	101	1310	
					BOTTOM OF BORING AT 33-1/2 FEET				

Station: 11+385 (meters) Offset: -40 (meters:positive=east) (600801.34/1872333.20)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

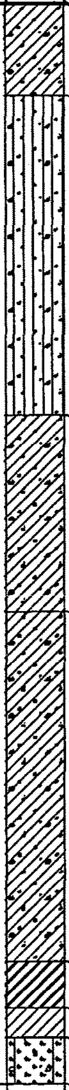
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-4

Date Drilled: 10/24/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 19.8 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	5				**SANDY CLAY** Firm, damp, gray-brown, fine-grained sand	22	97	1870	
5	2	1				**SANDY SILT** Loose, gray-brown, fine-grained	33	85	690	
						▽				
10	3	6								
15	4	3				**SILTY CLAY** Soft to firm, dark gray, with sand lenses	34	80		
20	5	8				**SANDY CLAY** Firm, dark gray, fine-grained	27	97	2300	
25	6	6								
30										
						CLAY Stiff, dark gray				
						SILTY CLAY Stiff, gray-brown				
35	7	12				**FINE SILTY SAND** Loose to medium dense, gray-brown				
						BOTTOM OF BORING AT 35-1/2 FEET				
40										
45										

Station: 10+950 (meters) Offset: -31 (meters:positive = east) (600937.47/1872040.92)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

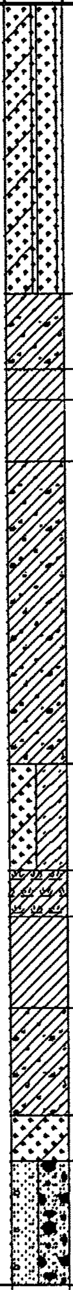
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-5

Date Drilled: 10/13/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 17.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						CLAYEY SILTY SAND Very loose, damp to wet, brown				
5						∇				
10						**SANDY CLAY** Soft to firm, dark gray				
						SILTY CLAY Stiff, dark gray				
						SILTY CLAY Stiff, gray-green				
15						**SILTY CLAY** Stiff, brown, with Sandy Silty Clay layers				
20										
25						**SANDY CLAY to SILTY CLAY** Stiff, gray-brown				
						CLAY and PEAT Soft, dark gray				
30						**SILTY CLAY** Soft to firm, dark gray				
						SANDY SILTY CLAY Stiff, dark gray				
35										
						CLAYEY SAND Loose, dark gray				
						SAND and GRAVEL Medium dense, dark gray				
40										
						BOTTOM OF BORING AT 42 FEET				
45										

Station: 10+693 (meters) Offset: -45 (meters:positive=east) (601036.00/1871785.31)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-6

Date Drilled: 10/13/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 16.7 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SANDY CLAY Loose, cultivated				
						SILTY CLAYEY SAND Stiff, damp, brown				
5	1	4				**SILTY CLAYEY SAND** Loose, moist, brown	19	92	1310	
	2	4				**SANDY SILTY CLAY** Firm, brown to dark gray ▽	37	85		
10										
15	3	2					38	89	250	
	4	8					48	71	1490	
20	5	10				**CLAY with PEAT** Stiff, dark gray	27	96	1870	
25						**SILTY CLAY** Stiff, green-brown				
	6	8				**CLAYEY SILTY SAND** Loose, brown	25	101	940	
30						**SANDY SILTY CLAY** Stiff, brown				
35	7	22				**SILTY CLAY** Very stiff, brown	19	110	1250	
40						BOTTOM OF BORING AT 38-1/2 FEET				
45										

Station: 10+187 (meters)　Offset: -73 (meters:positive=east)　(601382.15/1871390.83)

Project: 95-973017NB.00　**URS Greiner Woodward Clyde**　Sheet 1 of 1　Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-7

Date Drilled: 10/20/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 13.2 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	7			**SILTY CLAY** Firm, damp, brown	8	88	2860	
5					**SANDY CLAY** Firm, moist, brown				
	2	4				33	89		
10					**SANDY CLAY to SILTY CLAY** ▽ Soft to firm, blue-gray, fine-grained, with organic material				
	3	5							
15	4	7				37	80	1120	
20	5	7				39	78	1060	
					SILTY CLAY and PEAT Firm, blue-gray				
25	6	8				93	43	1000	
30					**SANDY SILTY CLAY** Firm, dark gray				
					SANDY SILTY CLAY Stiff, tan-gray				
35	7	21				18	112	9680	
					BOTTOM OF BORING AT 35-1/2 FEET				
40									
45									

Station: 10+021 (meters)
Offset: -52 (meters:positive=east)
(601534.24/1871328.00)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-8

Date Drilled: 10/13/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 14.8 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Layers of loose, brown CLAYEY SILTY SAND and firm, brown SANDY SILTY CLAY				
	1	5					26	89	2180	
5										
	2	4					35	85	690	
10										
	3	4				**SILTY SAND** Loose, dark gray, with some clay				
15										
	4	7								
20										
25						**SILTY CLAY** Firm, dark gray				
	5	22				**SAND and GRAVEL** Medium dense, dark gray	23	103	560	
30										
35										
						BOTTOM OF BORING AT 37 FEET				
40										
45										

Station: 9+773 (meters)
Offset: 45 (meters:positive=east)
(601777.02/1871225.71)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

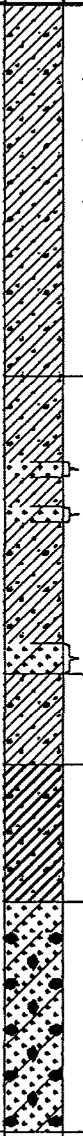
Log of Boring: GRIV-9

Date Drilled: 10/18/60
Type of Boring: 6-inch Auger
Hammer/drop (lb/in): 140lb

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 11.3 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SANDY SILTY CLAY Soft, dry, brown				
						Stiff				
						Hard				
5						Stiff				
10						▽				
						SANDY SILTY CLAY Stiff, gray-brown				
15						Loose Clayey Sand				
						Loose Clayey Sand				
20						Loose Clayey Sand				
						SANDY SILTY CLAY Stiff, dark brown				
25						**SANDY CLAY** Stiff, dark gray-brown				
30						**CLAYEY SAND** Loose, gray-brown, gravelly below 30-1/2 feet				
35										
						BOTTOM OF BORING AT 37 FEET				
40										
45										



Station: 9+545 (meters)
Offset: -49 (meters:positive=east)
(601813.69/1870982.80)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GROCS-1

Date Drilled: 4/26/83
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-12, PA 11516 - GEOTECH. INVEST. GUAD. RIV. OUTFALL CONTROL STRUCTURE - John V. Lowney & Associates (06/83)

Surface Elevation: 9.3 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						COBBLES - Over gravel base Coarse type material				
		10				**SILTY CLAY (CL) with sand** Stiff, brown	16			
5		7					20			
10		7		1.5		**SILTY CLAY (CH) Bay Mud** Firm, gray	27			
						↓ Very soft				
15		2		0.7		▽	43			
20		6		2.0		**SILTY CLAY (CL)** Firm, mottled brown	30			
						↓ Tan				
25		7		1.3			23			
						↓ Mottled tan				
30		6		1.5			25			
						↓ Stiff				
35		9		1.5			33			
						SILTY SAND (SM) Loose, gray, fine grained				
40		9					25			
45		10					27			

Station: 7+207 (meters) Offset: 62 (meters:positive=east) (603480.24/1869458.58)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 2 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GROCS-1
(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		9			▨	Well-graded, mixed grays	15			
50						BOTTOM OF BORING AT 50 FEET				
55										
60										
65										
70										
75										
80										
85										
90										
95										

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 2 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-1

Date Drilled: 10/5/84
Remarks: From 16338V - GOLD STREET BRIDGE
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in
Surface Elevation: 4.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	22			▨	**SILTY CLAY (CL) FILL** Moderately compacted, damp, light brown to dark brown	21	103	4510	
5	2	33			●	**GRAVELLY CLAY (CL-GC) FILL** Moderately compacted, moist, brown, with brick fragments, pieces of tin can at 4 feet FILL	11	117	5670	
10					▨	**SILTY CLAY (CH)** Stiff, moist, dark gray (BAY MUD)				
					▨	**SILTY CLAY (CL)** Very stiff, moist, gray and brown mottled				
15						BOTTOM OF BORING AT 15 FEET				
20										
25										
30										
35										
40										
45										

Station: 7+108 (meters)
Offset: 117 (meters:positive=east)
(603553.35/1869371.53)

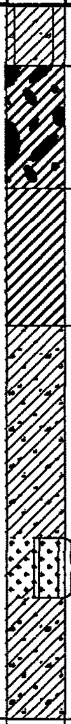
Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-2

Date Drilled: 10/5/84
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 3.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	5			**CLAYEY SILT (CL-ML) FILL** Poorly compacted, damp, brown with some sand and gravel				
5	2	2			**SILTY CLAY (CL) and REFUSE FILL** Uncompacted, moist, brown, containing rusty metal, glass and organic material FILL	22	62	320	
	3	5			**SILTY CLAY (CH)** Soft, moist to wet, dark gray	33	84	770	
10	4	9			← Medium (BAY MUD) 15 min ▼	33	86	1320	
					SANDY CLAY (CL) Stiff, brown and gray mottled				
15	5	24				18	113	3270	
					Increasing sand content				
20	6	10			Clayey sand (SC-SM)				
25					BOTTOM OF BORING AT 23-1/2 FEET				
30									
35									
40									
45									

Station: 7+086 (meters) Offset: 96 (meters:positive=east) (603536.56/1869346.19)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

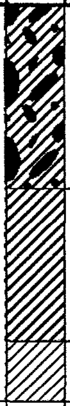
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-2A

Date Drilled: 10/5/84
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 16338V - GOLD STREET BRIDGE

Surface Elevation: 3.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						**SOIL and REFUSE - FILL** Poorly compacted				
5						FILL				
						SILTY CLAY (CH) Medium, moist to wet, dark gray (BAY MUD)				
10										
						SANDY CLAY (CL) Stiff, brown				
						BOTTOM OF BORING AT 13 FEET				
15										
20										
25										
30										
35										
40										
45										

Station: 7+085 (meters)

Offset: 106 (meters:positive=east)

(603547.21/1869346.97)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

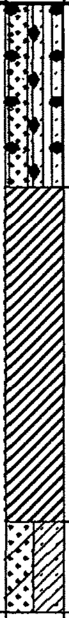
Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-2B

Date Drilled: 10/5/84
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in
Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 4.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						**SILTY SAND (SM-ML) FILL** Moderately compacted, moist, brown, with some gravel				
5						FILL				
						SILTY CLAY (CH) Medium, moist, dark gray (BAY MUD)				
10										
15										
						CLAYEY SAND (SC-CL) Medium, dense, brown and gray mottled				
20						BOTTOM OF BORING AT 20 FEET				
25										
30										
35										
40										
45										

Station: 7+089 (meters)
Offset: 81 (meters:positive=east)
(603522.22/1869346.00)

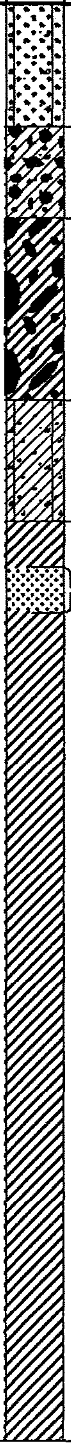
Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-3

Date Drilled: 10/5/84
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 11.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					SILTY SAND (SM) FILL Moderately compacted, damp, brown and gray, with scattered coarse gravel to 3 inches				
5	1	20			**GRAVELLY CLAY (CL) FILL** Moderately compacted, moist, dark brown with traces of refuse (plastic, metal)	13	117	5270	
	2	10			**SILTY CLAY (CL-CH) and REFUSE FILL** Poorly compacted, dark gray, (consisting of a mixture of Bay Mud, wood, glass, plastic and cloth) ∇	36	77	1150	
10	3	7			FILL ← Concentrated organic material	30	83	1060	
15	4	14			**SANDY CLAY (CL-ML)** Stiff, dark brown-gray, with traces of organic material	22	105	2870	
20	5	3			**SILTY CLAY (CH)** Soft, dark gray to black Sand lens With high organic material content (BAY MUD)	40	76	490	
25	6	4				91	47	840	
30	7	4				77	53	880	
35	8	7			With traces of organic material	70	56	790	
40	9	6				46	74	840	
45									

Station: 7+115 (meters)
Offset: 59 (meters:positive=east)
(603494.86/1869367.28)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GSB-3

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▨					
50						BOTTOM OF BORING AT 50 FEET				
55										
60										
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-4

Date Drilled: 10/5/84
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 11.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	24				**GRAVELLY CLAY (CL) FILL** Moderately to well compacted, damp, brown, with coarse gravel to 2 inch diameter	8	113	11190	
	2	17				Moderately compacted	11	103	2880	
5						**SILTY CLAY (CL-CH) FILL** Moderately compacted, moist, dark brown mottled				
	3	20				∇	21	105	4460	
10										
						SOIL and REFUSE FILL Poorly compacted to uncompacted, containing wood, plastic, glass and organic material				
15	4	9				FILL				
						SILTY CLAY (CH) Stiff, dark brown-gray, with traces of organic material				
20	5	16					28	97	2870	
						SANDY CLAY (CL) Very stiff, brown, with some fine gravel				
25	6	28					19	108	4500	
30	7	10				Increasing sand content (CL-SC)	25	101	4590	
						BOTTOM OF BORING AT 30 FEET				
35										
40										
45										

Station: 7+111 (meters) Offset: -41 (meters:positive=east) (603398.18/1869343.85)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-5

Date Drilled: 10/5/84

Type of Boring: 6 inch Continuous Flight Auger

Hammer/drop (lb/in): 140lb/30in

Remarks: From 16338V - GOLD STREET BRIDGE

Surface Elevation: 11.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY SAND (SM) FILL Poorly compacted, damp, red-brown				
	1	27				**GRAVELLY CLAY (CL) FILL** Moderately to well compacted, moist, dark brown	22	107	10380	
5	2	24				**SILTY CLAY (CL) FILL** Moderately compacted, moist, brown, with wood fragments FILL	12	116	4100	
10						**SILTY CLAY (CH)** Stiff, moist, dark gray with some light gray zones				
15	3	15								
						BOTTOM OF BORING AT 16-1/2 FEET				
20										
25										
30										
35										
40										
45										

Station: 7+136 (meters)   Offset: -65 (meters:positive=east)   (603369.76/1869364.31)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

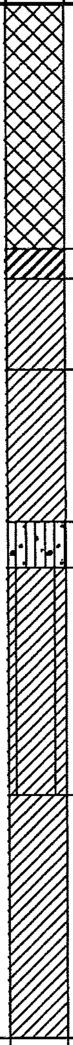
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-1

Date Drilled: 11/1/60
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 8.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
5						**MISCELLANEOUS FILL** Loose to medium dense FILL				
						SILTY CLAY Soft, black, organic				
10						**SILTY CLAY** Firm, dark brown				
	1	10				**SILTY CLAY** Stiff to very stiff, yellow brown, with lime nodules	22	106	4850	
15										
	2	11				**SANDY SILT** Loose, brown	26	99	1370	
20						**SILTY CLAY to CLAYEY SILT** Very stiff, yellow brown Firm				
	4	6					28	95	600	
25						**SILTY CLAY** Stiff, brown				
30										
	5	8					32	89	3360	
35						BOTTOM OF BORING AT 34 FEET				
40										
45										

Station: 7+110 (meters) Offset: -300 (meters:positive=east) (603143.94/1869292.86)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-2

Date Drilled: 11/1/60
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 7.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						MISCELLANEOUS FILL Loose				
5										
						FILL ↑				
						CLAYEY SILT Soft, black, organic				
						SILTY CLAY Soft, dark gray				
10										
						SILTY CLAY Stiff, gray-brown				
	1	8					24	100	3680	
15										
	2	12					24			
						CLAYEY SILT to SANDY SILT Loose to medium dense, brown				
20	3	8					29	95	1490	
						SILTY CLAY Stiff, gray-brown, with some sand				
25										
	4	8					33	89	2550	
30										
						SANDY SILTY CLAY Firm to stiff, dark gray				
35										
	5	15					31	91	3110	
40						BOTTOM OF BORING AT 39-1/2 FEET				
45										

Station: 7+119 (meters)   Offset: -108 (meters:positive=east)   (603330.47/1869339.30)

7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT **Santa Clara County, California**	**Log of Boring: GSBOLD-3**

Date Drilled: 11/1/60
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 3.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						MISCELLANEOUS FILL Loose				
5						FILL				
						CLAYEY SILT Loose, black, organic				
						SILTY CLAY to CLAYEY SILT Soft, dark gray				
10	1	2					40	81	1000	
						SILTY CLAY Firm, gray-brown				
15										
20	2	5								
						SILTY CLAY Soft to firm, dark gray, with layers of Sandy Silty Clay and Clayey Sand				
25										
30	3	5					39	81	950	
						CLAYEY SAND Loose, dark gray				
35						Medium dense				
	4	8				**SILTY SAND** Loose, dark gray	19	108		
40						**CLAY** Firm to stiff, dark gray				
						SILTY CLAY Stiff, green-brown				
45						**SILTY SAND** Medium dense to dense, gray-brown, with fine gravel				

Station: 7+122 (meters) Offset: -49 (meters:positive=east) (603387.37/1869353.63)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GSBOLD-3

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	5 ☒	35			▨		10	130		
50					▨					
55					▨					
						BOTTOM OF BORING AT 57 FEET				
60										
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-4

Date Drilled: 11/1/60

Type of Boring: 6 inch Auger

Hammer/drop (lb/in): 140lb/30in

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 7.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						MISCELLANEOUS FILL Loose				
5										
						FILL				
						SILTY CLAY Soft, black, with peat				
10										
	1	1					40	112	370	
						SILTY CLAY Very soft, gray-brown, with peat				
15										
	2	1					103	43	440	
20										
	3	2					86	49	440	
25										
30										
						GRAVELLY CLAY Loose to medium dense, gray-green				
						SILTY CLAY Soft to firm, dark gray				
35	4	6					45	76	810	
						SILTY CLAY Firm to stiff, gray-green				
40						**SILTY SAND** Loose to medium dense, gray-green				
	5	12					21	104		
45										

Station: 7+112 (meters)

Offset: 11 (meters:positive=east)

(603449.09/1869354.95)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GSBOLD-4

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
50					▨					
						BOTTOM OF BORING AT 52 FEET				
55										
60										
65										
70										
75										
80										
85										
90										
95										

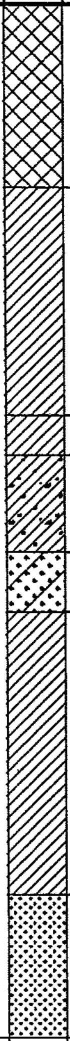
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-5

Date Drilled: 11/1/60
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 8.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						**MISCELLANEOUS FILL** Loose to medium dense				
	1	30					24			
5						FILL				
						SILTY CLAY Firm, dark gray				
	2	4								
10										
	3	9					29	93	3110	
						SILTY CLAY Stiff, gray-brown				
15						**SANDY CLAY** Stiff, gray-brown				
	4	8								
						CLAYEY SAND Loose to medium dense, gray-brown				
20						**SILTY CLAY** Firm, gray-brown				
	5	5					28	94	1240	
25						Stiff				
	6	12					33	89	4100	
30						**SAND** Medium dense, gray-brown, fine grained				
	7	16					24	98		
35						BOTTOM OF BORING AT 34 FEET				
40										
45										

Station: 7+074 (meters)   Offset: 209 (meters:positive=east)   (603650.50/1869356.63)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-6

Date Drilled: 11/1/60
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 2.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						CLAYEY SILT and ROCK FRAGMENTS - FILL Dense, damp to moist FILL				
	1	9				**SILTY CLAY** Stiff, dark gray	29	91	2500	
5						Very stiff				
	2	11				**SANDY CLAY** Stiff, gray-brown	21	107	3180	
10										
						CLAYEY SAND Loose, tan				
	3	14				**SAND and GRAVEL** Dense, gray	18	112		
15						**SILTY SANDY CLAY** Stiff, tan				
	4	13				**SILTY CLAY** Stiff, gray-tan, with some sand	31	91	3050	
20										
						SAND and GRAVEL Lens				
25	5	7				**CLAYEY SAND** Medium dense, gray-brown, fine grained	25	102	1620	
						BOTTOM OF BORING AT 26 FEET				
30										
35										
40										
45										

Station: 7+085 (meters)

Offset: 344 (meters:positive=east)

(603780.51/1869393.50)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GTPP-B13

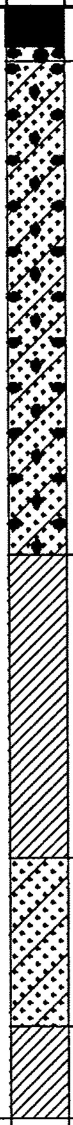
Date Drilled: 12/14/95

Type of Boring: 8 inch Auger

Hammer/drop (lb/in): 140lb/30in

Remarks: From 953009NE - GOLDEN TRIANGLE PIPELINE, Parikh Consultants, Inc.

Surface Elevation: 26.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						16 inches Asphalt over 6 inches Aggregate Base				
						CLAYEY SAND (SC) WITH GRAVEL - FILL Loose to medium dense, moist, brown				
	1	25					13	115		
5	2	14					15	114	1630	+#4=15% -#200=29%
10	3	16					17	109	1900	
15						Medium dense, moist, dark brown				
	4	29					15	112	4020	
						FILL				
						LEAN CLAY (CL) Hard, moist, black				
20	5	29					17	95		PP>4.5tsf
25						Stiff				
	6	12					24	94		PP=1.25tsf
						12/21/95 ▼ First Well Reading				
						CLAYEY SAND (SC) Loose, wet, light brown				
30	7	10					23	101	1040	-#200=45%
						LEAN CLAY (CL) Stiff, wet, brown				
35	8	10					32	89	2060	PP=1.75tsf
						BOTTOM OF BORING AT 36-1/2 FEET				
40										
45										

Station: 9+224 (meters)

Offset: 94 (meters:positive=east)

(602072.58/1870775.10)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-1

Date Drilled: 1/2/92
Remarks: From 91C0639R - HETCH-HETCHY PIPELINES
Type of Boring: 4-7/8 inch Rotary Wash
Hammer/drop (lb/in): 140lb/30in
Surface Elevation: 10.1 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	19	4.5			**SILTY CLAY (CL) FILL** Moderately compacted, moist, dark brown, with some fine roots FILL	18	105	6750	
						SILTY CLAY (CH) Stiff, moist, gray brown				
5	2	200 250 psi	1.0-1.5				24 23	100 103	1680	LL=58 PI=37
						SILTY CLAY (CL) Stiff, moist, light brown				
10	3	21	2.5				22	102	3070	
						Sand lens				
15	4	210 psi	0.9-1.7			Very soft, moist, light brown, some fine sand	20 32	101 89	470	LL=37 PI=13
20	5	15	0.8-1.3			**SILTY CLAY (CL)** Soft, moist, brown with dark brown mottling, trace fine to medium sand	24	102	540	
25	6	24				**CLAYEY SAND (SC)** Medium dense, brown, trace fine gravel	18	114		
						SILTY CLAY (CL) Soft, moist, light brown, trace fine to coarse sand				
30	7	17	1.5				30	93	900	
35	8	225 psi	0.4-2.2			**SILTY CLAY (CL)** Very soft, gray brown, some sand	25 20	102 108	370	LL=30 PI=13
40	9	26				**SILTY SAND (SM)** Medium dense, brown, trace fine gravel	17	114		
						SANDY CLAY (CL) Medium, moist, yellowish brown mottled orange, gray and brown				
45	10	15	0.5-0.8				25	100	1130	

Station: 10+131 (meters)   Offset: 52 (meters:positive=east)   (601492.63/1871473.03)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-1

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
50	11	72				**SILTY SAND (SM)** Very dense, brown, with multi-colored gravel up to 1/2 inch	17	112		
						SILTY CLAY (CL) Stiff, moist, gray brown with gray mottles				
55	12	24	1.5-2.0				24	102	2120	
60	13	22	1.0			Medium	28	95	1540	
65	14	56	4.3-4.5			More plastic (CL-CH); very stiff	22	106	6230	
70	15	24	1.5-2.0				29	94	4700	
75	16	44	1.5-2.0				23	105	5060	
80	17	22	2.8-3.0			Less plastic (CL); medium	23	105	1400	
85	18	21	2.5-3.0			Stiff	23	104	4020	
						CLAYEY SILT (ML) Stiff, moist, dark grayish brown with light tan mottling				
90	19	34	2.8				24	102	2910	
						SILTY CLAY (CL) Stiff, moist, gray mottled gray and brown				
95	20	51	1.5				26	98	3790	

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 2 of 3	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-1

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
100	21 ◪	81	3.5- 4.5		▨	Very stiff	25	101	5740	
						BOTTOM OF BORING AT 101-1/2 FEET				
105										
110										
115										
120										
125										
130										
135										
140										
145										
150										

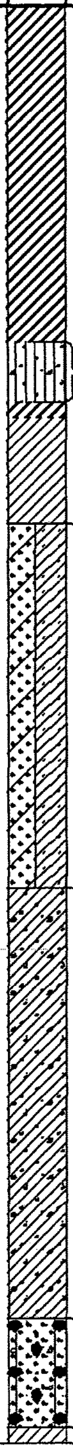
Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 3 of 3	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-2

Date Drilled: 1/8/92
Type of Boring: 4-7/8 inch Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES
Surface Elevation: 4.7 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Sampling not attempted at 1 foot due to disturbance of soft soil surface with tracks of drill rig				
5	1	WOR ***				**SILTY CLAY (CH)** Very soft, wet, gray	38	117	50	
	2	WOR ***								
10	3		0.4			Su = 110psf	42	107		PP = 0.4tsf
	4	2				FINE SANDY SILT (ML) Soft, moist, orange brown mottled light brown	23	103	720	
	5	9								
15	6	9	1.0			**SILTY CLAY (CL)** Soft, brown mottled gray and brown, trace fine sand	23	103	630	PP = 1.0tsf
	7	42								
	8	13				**SANDY CLAY (CL-SC)** Medium, moist, brown mottled gray and brown, trace fine gravel				
20	9	10	1.3				22	107	1040	PP = 1.3tsf
	10	350 300 psi	0.5-0.8			Su = 800psf	22	105		PP = 0.5-0.8tsf
25	11	15	2.0-2.3				27	97	2350	PP = 2.0-2.3tsf
	12	23				Stiff				
	13	21								
30	14	11	1.0			**SANDY CLAY (CL)** Medium, brown with gray mottles, trace fine gravel	26	100	1540	PP = 1.0tsf
35	15	11				Soft	27	100	720	
40	16	12	0.3-1.0			Very soft to soft	27	97	500	PP = 0.3-1.0tsf
						SILTY SAND (SM) Very dense, grayish brown, some gravel				
45	17	50					13			+ #4 = 20%

Station: 10+144 (meters)   Offset: 1 (meters:positive = east)   (601458.66/1871433.03)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-2

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▨	**SILTY CLAY (CL)** Medium, moist, olive brown with gray and rust mottling				-#200=15%
50	18	12	1.3- 1.5		▨		24	102	1130	PP=1.3-1.5tsf
55	19	42	2.3		▨	More plastic (CL-CH), stiff	32	91	3070	PP=2.3tsf
60	20	50/ 5"	4.5		▨	Very stiff	26	99	5550	PP=4.5tsf
						BOTTOM OF BORING AT 61-1/2 FEET *** WOR - Weight of rods pushed sampler Su - Shear strength from unconsolidated undrained triaxial test				
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-3

Date Drilled: 1/2/92
Type of Boring: 4-7/8 inch Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES

Surface Elevation: 5.3 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	1				**SILTY CLAY (CH)** Very soft, gray brown, many roots and weeds				
	2	15	3.0-4.0			**SANDY CLAY (CL)** Stiff, dark brown, moist, trace roots	20	106	3570	
5	3	10	0.7-1.5			**SILTY CLAY (CH)** Soft, dark gray, wet, slight organic odor, many roots				
	4	8								
	5	3								
10	6	2	0.3			SANDY SILT (SM-ML) Soft, black, slight organic odor	35	86	900	
	7	5								
	8	8								
15	9	8				Decayed root matter present	37	83	1310	
	10	7								
	11	5								
20	12	7	0.5-0.8				70	55	810	
	13	5								
	14	6								
	15	11								
25	16	10	0.3				41	79	990	
	17	10								
	18	9	0.7			**CLAYEY SAND (CL-SC)** Loose, moist, dark gray				
30	19	9					28	93	530	
35	20	15	1.0-1.3			**SANDY CLAY (CL)** Medium, moist, olive brown, some fine to coarse gravel	24	101	1420	
40	21	39					15	118		
						CLAYEY FINE TO COARSE SAND (SC) Dense, moist, brown, some gravel up to 1/4 inch				
						CLAYEY GRAVELLY SAND (SC-SW) Very dense, moist, brown mottled gray				
45	22	50/ 5"								+#4=32%

Station: 10+130 (meters) Offset: -31 (meters:positive=east) (601456.48/1871397.98)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-3

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
										-#200 = 8%
50	23	26	1.7- 2.7			**CLAYEY SAND (SC)** Medium dense, moist, light orange brown	21	106	1730	
55	24	46				Dense				+#4 = 33% -#200 = 14%
						SILTY CLAY (CL) Very stiff, moist to dry, olive gray and light gray brown mottled				
60	25	51	3.8- 4.2				24	103	5780	
						BOTTOM OF BORING AT 61-1/2 FEET				
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-4

Date Drilled: 1/3/92

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES

Type of Boring: 4-7/8 inch Rotary Wash

Hammer/drop (lb/in): 140lb/30in

Surface Elevation: 19.2 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	30				**SILTY CLAY (CL) FILL** Moderately compacted, moist, brown, some sand	14	99		
5	2	200 psi					17	98	1550	
						Some fluid loss				
10	3	300 psi								
						Gray brown LEVEE FILL				
						SANDY TO SILTY CLAY (CL) Medium, very moist, dark gray brown				
15	4	5	2.0-2.5				22	100	1600	PP=2-2.5tsf
	5	4								
	6	4								
20	7	4	0.5-0.8			**SILTY CLAY (CL)** Soft, dark gray, slight organic odor, trace large decomposed root	31	88	720	PP=0.5-0.8tsf
	8	2								
	9	8								
25	10	100 psi	0.5-0.8				35	86	710	LL=32 PI=8 PP=0.5-0.8tsf
	11	5				**SANDY CLAY (CL)** Soft, dark gray, trace decomposed roots, moist to wet, thin lenses of Silty Sand	33	88		
30	12	4	0.5				35	83	790	PP=0.5tsf
	13	5								
	14	4				**SILTY CLAY (CL-CH)** Medium stiff, moist, dark gray, trace fine sand				
35	15	100 psi	0.4				28	95	1800	LL=49 PI=26 PP=0.4tsf
	16	9								
	17	5								
40	18	12	1.5-1.8			Stiff	28	96	2210	PP=1.5-1.8tsf
45	19	43	4.5			Very stiff, dry to moist, mottled tan and light gray, trace sand	21	105	5550	PP=4.5tsf

Station: 10+128 (meters)

Offset: -52 (meters:positive=east)

(601448.78/1871378.46)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-4

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
50	20	18	0.8- 1.3			**SANDY CLAY (CL)** Medium, moist, brown mottled gray	21	107	1170	PP=0.8-1.3tsf
55	21	60				**GRAVELLY SAND (SW-SM)** Very dense, brown with dark gray to black gravel				
60	22	66					22			+#4=17% -#200=6%
65	23	58				**SILTY SAND (SM)** Very dense, gray brown, trace fine to coarse gravel				
70	24	70								
						SILTY CLAY (CL) Stiff, moist, brown gray with brown mottling, trace medium to coarse sand				
75	25	43	3.0- 3.5				21	108	3840	PP=3.0-3.5tsf
80	26	39	2.5- 3.0				26	98	3070	PP=2.5-3.0tsf
						SANDY CLAY (CL) Medium, brown mottled grayish brown, occasional lenses of Silty Sand				
85	27	23	1.5- 2.0				20	109	1460	PP=1.5-2.0tsf
						SILTY CLAY (CL) Stiff, moist, grayish brown mottled gray				
90	28	33	1.5- 2.0				23	105	2530	PP=1.5-2.0tsf
95	29	31	1.0- 1.5				27	98	2080	PP=1.0-1.5tsf

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-4

(continued)

Depth, Feet	Samples		Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
100	30	▧	35	1.5		▨	Medium	28	95	1670	PP=1.5tsf
							↑ BOTTOM OF BORING AT 101-1/2 FEET				
105											
110											
115											
120											
125											
130											
135											
140											
145											
150											

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 3 of 3	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-5

Date Drilled: 1/6/92
Type of Boring: 4-7/8 inch Rotary Wash
Hammer/drop (lb/in): 140lb/30in
Remarks: From 91C0639R - HETCH-HETCHY PIPELINES
Surface Elevation: 9.8 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY (CL) Very stiff, moist, reddish brown				
	1	16					16	104	5270	
5	2	200 psi	4.5				15	108	9510	
						SILTY CLAY (CL) Soft, light gray brown and orange brown mottled, with some fine sand				
10	3	225 psi	0.3				25	96	570	
						CLAYEY SAND (SC) Loose, moist to wet, brown				
15	4	12					23	101		
						SILTY CLAY (CL) Stiff, moist to wet, brown				
20	5	26	2.0-2.5				21	105	2940	
25	6	11	0.5-1.0			Soft, moist, brown mottled light brown, some fine to medium sand	22	106	770	
						SILTY FINE TO COARSE SAND (SP-SM) Dense, light brown				
30	7	39								
						SANDY CLAY (CL) Medium, moist, light brown, some fine gravel				
35	8	20	0.8-1.8				21	105	1310	
40	9	14	0.8-1.5				22	104	1140	
						CLAYEY SAND (SC) Very dense, gray and brown, with some medium (sic) to coarse gravel				
45	10	62								

Station: 10+147 (meters) Offset: -69 (meters:positive=east) (601423.98/1871372.23)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-5

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						FINE TO COARSE SAND (SP-SM) Dense, brown/black, some silt and fine to coarse gravel				
50	11	46					24			+#4=0 -#200=11%
55	12	84				Very dense				
60	13	50/ 5.5"								
						BOTTOM OF BORING AT 60-1/2 FEET				
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHPA-2

Date Drilled: 6/6/88
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES - Citing Boring 2 from PSC Associates, Inc.; Job No.88122.10

Surface Elevation: 10.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	2-1	67			▨	**Silty CLAY (CL)** Dark brown, organics, hard, moist	18	92		
5					░	**Silty SAND (SM)** Brown, moist, medium dense				
	2-2	44			░	6 HOURS AD ▼	23	103		
10					░	Finer sand				
	2-3	31			░		23	103		
15					▨	**Clayey fine SAND (SC)** Brown, wet, medium dense ∇				
	2-4	22			▨		25	101		
20	2-5	60/ 5"			▨	Very dense	22	108		
25	2-6				▨		22			
30	2-7	50/ 5"			▨		25			
35	2-8				▨		23			
40	2-9	29			▨	Medium dense	21	105		
						BOTTOM OF BORING AT 40-1/2 FEET				
45										

Station: 10+174 (meters) Offset: -120 (meters:positive=east) (601371.59/1871342.82)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHPA-3

Date Drilled: 6/6/88
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES - Citing Boring 3 from PSC Associates, Inc.; Job No.88122.10

Surface Elevation: 10.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	3-1	30			**Clayey SAND (SC)** Brown, with organics, medium dense, slightly moist	13	80		
5	3-2	SL			**Sandy silty CLAY (CL)** Dark brown, very stiff, moist	29	94		
					Fine gravelly SAND (SW) Light brown, medium dense, moist				
10	3-3	32			2 HOURS AD ▼ ▽	23	103		
15	3-4	18			Brown and gray color	24	103		
20	3-5	46			**Sandy CLAY to Clayey SAND (CL-SC)** Light brown, wet, medium dense	19	109		
					Less clayey				
25	3-6					25			
30	3-7	67			**Coarse silty SAND (SM)** Gray brown, wet, dense	19	108		
35	3-8					20			
					Sandy CLAY (CL) Brown, wet, stiff				
40	3-9	21							No recovery
45	3-10				**Clayey fine SAND (SC)** Brown, medium dense, wet	20			

Station: 10+174 (meters) Offset: -68 (meters:positive=east) (601397.29/1871387.22)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHPA-3

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Clean SAND (SW) Gray, with some gravel, medium dense, wet				
50	3-11	42					16			
55	3-12						18			
						Clayey SAND (SC) Gray, with some gravel, medium dense, wet				
60	3-13	35								No recovery
						BOTTOM OF BORING AT 60 FEET				
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: OPS-1

Date Drilled: 6/11/86

Type of Boring: 3 inch Solid Auger ("Minute Man" Rig)

Hammer/drop (lb/in): 80lb/30in

Remarks: From 16784V - GEOTECH.CONSULTATION OAKMEAD STORM PUMP STATION

Surface Elevation: 5.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	0				**SILTY CLAY (CL-OH)** Very soft, wet, black mottled with gray, with roots and grass, organic ▽	99	44	180	
5	2	11					58	63	130	
10	3	27				**SANDY CLAY (CL)** Medium, moist, light grayish-brown mottled with orange, with thin seams of brown sand	22	104	1140	
15	4	15				**CLAYEY SAND (SC)** Medium dense, wet, brown Fine sand lens	23	104		
20	5	12				**SILTY CLAY (CL-ML)** Stiff, moist, brown with orange-brown mottling	34	88	2430	
25	6	15				**SILTY CLAY (CL-CH)** Medium, moist, gray and brown mottled, trace of fine gravel, some fine sand	23	104	1190	
30						BOTTOM OF BORING AT 26-1/2 FEET				
35										
40										
45										

Station: 8+666 (meters)

Offset: 23 (meters:positive=east)

(602462.47/1870405.83)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: OPS-2

Date Drilled: 6/17/86
Type of Boring: 3 inch Solid Auger ("Minute Man" Rig)
Hammer/drop (lb/in): 80lb/30in

Remarks: From 16784V - GEOTECH.CONSULTATION OAKMEAD STORM PUMP STATION

Surface Elevation: 5.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						ROOTS and ORGANIC MATTER				
	1	2/6"				**SILTY CLAY (CL-OH)** Very soft, wet, dark gray, with 1 inch black roots, organic	64	57		
5	2	14				**SILTY CLAY (CL)** Stiff, moist, dark gray, trace of fine gravel, with some sand, organic	19	111	3970	
10	3	28				**SILTY CLAY (CL)** Very stiff, moist, orange-brown and gray mottled, trace of fine sand ∇	22	104	6310	
15	4	16				**SANDY CLAY (CL)** Medium to soft, moist, brown with dark brown speckles				
	5	6					24			
20	6	12				**SILTY CLAY (CL-CH)** Medium, moist, grayish brown, trace of fine sand, trace of grass	30	93	1060	
25	7	12				Gray and orangish brown mottled with white specks	29	95	1770	
30						BOTTOM OF BORING AT 30 FEET				
35										
40										
45										

Station: 8+664 (meters)   Offset: 29 (meters:positive=east)   (602467.17/1870409.98)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: OPS-3

Date Drilled: 6/17/86
Type of Boring: 3 inch Solid Auger ("Minute Man" Rig)
Hammer/drop (lb/in): 80lb/30in

Remarks: From 16784V - GEOTECH.CONSULTATION OAKMEAD STORM PUMP STATION
Surface Elevation: 5.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1 ▧	2/ 18"			▨	**SILTY CLAY (CH-OH)** Very soft, wet, gray with black roots and organic matter	77			
5					▨	∇				
	2 ▧	30			▨		24	100	840	
					▨	**SILTY CLAY (CL-CH)** Soft, moist, grayish-brown and dark gray mottled, trace of fine sand and fine gravel to 1/2 inch, slightly organic				
10	3 ▧	12			▨	**SILTY CLAY (CL-CH)** Soft, wet, dark grayish brown, trace of fine sand and fine roots, slightly organic	29	94	970	
15	4 ▧	4			▨	**SILTY CLAY (CL-CH-OH)** Soft, wet, dark gray-brown, with wood chips and roots, organic	66	58	790	
20					▨	Increase in organic matter (1/2 to 1 inch long pieces of wood)				
	5 ▧	10			▨		69	57	750	
25						BOTTOM OF BORING AT 25 FEET NOTE: Hole cave-in occurred at depth of 7 feet when auger removed from depth of 25 feet. Another hole was offset 3 feet east and augered to 25 feet. Hole cave-in immediately occurred at depth of 6 feet when auger removed from depth of 25 feet.				
30										
35										
40										
45										

Station: 8+627 (meters)
Offset: 24 (meters:positive=east)
(602495.38/1870384.85)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: OPS-4

Date Drilled: 6/17/86
Type of Boring: 3 inch Solid Auger ("Minute Man" Rig)
Hammer/drop (lb/in): 80lb/30in

Remarks: From 16784V - GEOTECH.CONSULTATION OAKMEAD STORM PUMP STATION

Surface Elevation: 5.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						ROOTS and LEAVES				
	1	1/18"			▨	**SILTY CLAY (CH-OH)** Very soft, wet, dark gray to black, with organic matter				
5	2	13			▨	Less organic matter ▽				
					▨	**SILTY CLAY (CH)** Stiff, wet, grayish brown with olive-brown mottling, with black semi-solid organic matter	22	104	2690	
10	3	5			▨	**SILTY CLAY (CH-OH)** Very soft, wet, dark gray with black mottling, some fine sand, slightly organic	34	87	400	
15	4	9			▨	Soft, roots and pieces of wood	60	61	880	
20						BOTTOM OF BORING AT 20 FEET NOTE: Hole cave-in occurred at depth 6 feet when auger removed from depth of 20 feet				
25										
30										
35										
40										
45										

Station: 8+627 (meters)
Offset: 31 (meters:positive=east)
(602499.30/1870389.80)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PRMAR-1

Date Drilled: 1/15/62
Type of Boring: 12 inch Helical Auger
Hammer/drop (lb/in): N/A

Remarks: From Project 1140 - PROPOSED MARINA - ALVISO - Soil Mech. & Found. Engineers (02/62)

Surface Elevation: 8.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY Medium soft, gray, organic				
5						**SILTY CLAY** Soft, gray, organic				
							35			LL=59 PI=40
10							37			LL=63 PI=42
							35			
15						**SANDY SILTY CLAY** Stiff to very stiff, light brown	24			LL=59 PI=41
							22			LL=48 PI=31
						BOTTOM OF BORING AT 18 FEET				
20										
25										
30										
35										
40										
45										

Station: 6+020 (meters)
Offset: 133 (meters:positive=east)
(604339.35/1868787.98)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PRMAR-3

Date Drilled: 1/15/62	Remarks: From Project 1140 - PROPOSED MARINA - ALVISO - Soil Mech. & Found. Engineers (02/62)
Type of Boring: 12 inch Helical Auger	
Hammer/drop (lb/in): N/A	Surface Elevation: 8.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY Medium soft, gray, organic				
						WL IN POND				
5						**SILTY CLAY** Soft, gray, organic				
10							35	83	960	
						SANDY SILTY CLAY Stiff to very stiff, light brown	18			LL=58 PI=40
						BOTTOM OF BORING AT 12-1/4 FEET				
15										
20										
25										
30										
35										
40										
45										

Station: 6+182 (meters) Offset: 167 (meters:positive=east) (604220.32/1869008.61)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PRMAR-5

Date Drilled: 1/15/62
Type of Boring: 12 inch Helical Auger
Hammer/drop (lb/in): N/A

Remarks: From Project 1140 - PROPOSED MARINA - ALVISO - Soil Mech. & Found. Engineers (02/62)

Surface Elevation: 6.6 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY Medium soft, gray, organic				
						LEVEL IN RIVER ▽				
						SILTY CLAY Soft, gray, organic				
5	⊠						59	58	352	
						SANDY SILTY CLAY Stiff to very stiff, light brown				
	⊠						33	89	1410	
10										
15	▽						21			LL=37 PI=20
20										
						BOTTOM OF BORING AT 23-1/2 FEET				
25										
30										
35										
40										
45										

Station: 6+290 (meters) Offset: 311 (meters:positive=east) (604166.34/1869205.21)

7/1/99 GUADE GUADE

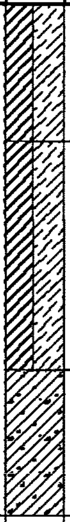
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PRMAR-9

Date Drilled: 1/15/62
Type of Boring: 12 inch Helical Auger
Hammer/drop (lb/in): N/A

Remarks: From Project 1140 - PROPOSED MARINA - ALVISO - Soil Mech. & Found. Engineers (02/62)

Surface Elevation: 8.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY Medium soft, gray, organic				
						LEVEL IN RIVER ▽				
5	☒					**SILTY CLAY** Soft, gray, organic	76	52	358	
	☒						76	52	372	
10										
						SANDY SILTY CLAY Stiff to very stiff, light brown				
	☒						36	86	840	
15										
						BOTTOM OF BORING AT 16-3/4 FEET				
20										
25										
30										
35										
40										
45										

Station: 6+140 (meters)
Offset: 494 (meters:positive=east)
(604505.88/1869191.91)

Project: 95-973017NB.00
URS Greiner Woodward Clyde
Sheet 1 of 1
Fig.

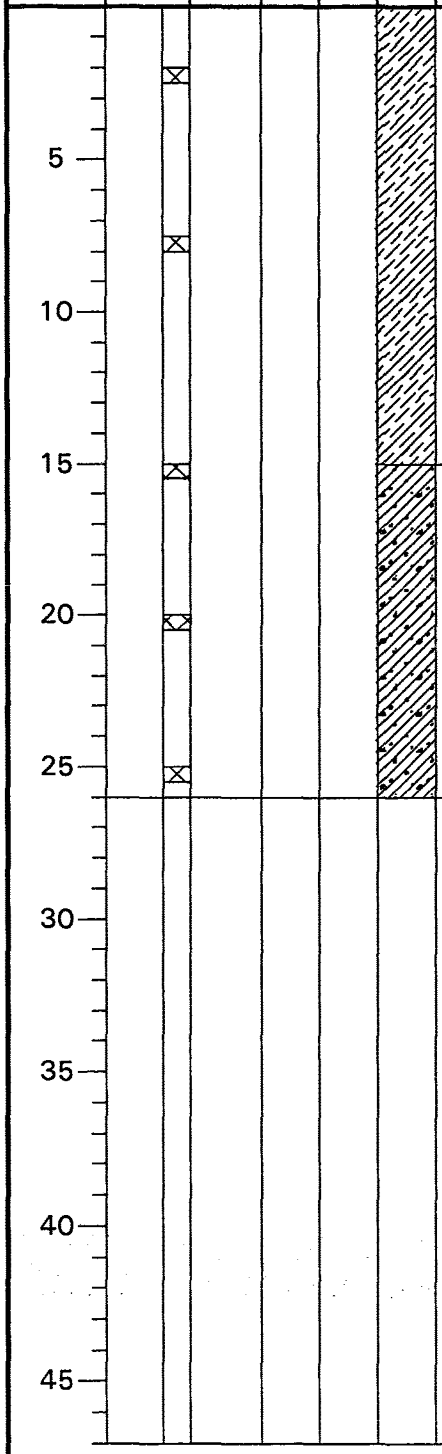
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PYH-1

Date Drilled: 1/29/60
Type of Boring: 24 inch Rotary Bucket
Hammer/drop (lb/in): N/A

Remarks: From Project 33A(?) - PROPOSED YACHT HARBOR - ALVISO - Cooper & Clark Consulting Engineers (01/60)

Surface Elevation: 11.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▨	**ORGANIC SILTY CLAY (OH)** Gray, with some partially decayed vegetation (Soft Bay Mud)				
	☒				▨	← Dark gray lens	41	74		Direct Shear: Test surcharge pressure = 300 psf; strength = 690psf
5										
	☒				▨		34	82		Direct Shear: Test surcharge pressure = 600 psf; strength = 620psf
10										
					▨	Mussel shells and fairly fresh vegetation				
15	☒				▨	**SANDY CLAY (CL)** Grayish-brown, fine grained, grades brown with depth	31	90		Direct Shear: Test surcharge pressure = 1000psf; strength = 980psf
20	☒				▨		21	107		Direct Shear: Test surcharge pressure = 1300psf; strength = 1660psf
25	☒				▨		19	111		Direct Shear: Test surcharge pressure = 1600psf;stren t = 1920psf
						BOTTOM OF BORING AT 26 FEET				
30										
35										
40										
45										

Station: 6+181 (meters) Offset: 174 (meters:positive=east) (604225.23/1869014.31)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PYH-3

Date Drilled: 1/29/60
Type of Boring: 24 inch Rotary Bucket
Hammer/drop (lb/in): N/A

Remarks: From Project 33A(?) - PROPOSED YACHT HARBOR - ALVISO - Cooper & Clark Consulting Engineers (01/60)

Surface Elevation: 8.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					▨	**ORGANIC SILTY CLAY (OH)** Gray, with some partially decayed vegetation (Soft Bay Mud)				
	☒				▨	Alternately gray and dark gray	49	64		Direct Shear: Test surcharge pressure = 300 psf; strength = 260psf
5					▨					
	☒				▨	Dark gray, much vegetation	104	42		Direct Shear: Test surcharge pressure = 400 psf; strength = 330psf
10					▨					
					▨	**SANDY CLAY (CL)** Grayish-brown, fine grained, grades brown and hard with depth				
	☒					BOTTOM OF BORING AT 13 FEET	25	99		Direct Shear: Test surcharge pressure = 700 psf; strength =3270psf
15										
20										
25										
30										
35										
40										
45										

Station: 6+295 (meters)   Offset: 389 (meters:positive=east)   (604197.19/1869277.03)

Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

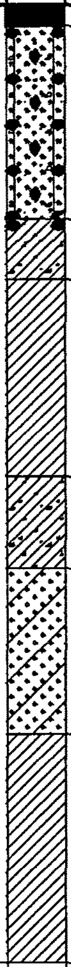
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RBPS-56

Date Drilled: 2/12/87
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 16171X - RETENTION BASIN AND PUMP STATION

Surface Elevation: 36.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					7-1/2 inches Asphalt Concrete				
	1	28			**SILTY SAND AND GRAVEL - FILL** With occasional asphalt fragments, 1/2 to 1-1/2 inch gravel	8	100	1700	+#4=53% -#200=11%
5	2	20			FILL				
					SANDY CLAY (CL) Very stiff, brown, with some gravel. No gravel below 7-1/2 feet				
10	3	8			**SILTY CLAY (CL)** Stiff, dark brown	21	94	1190	LL=29 PI=9
15	4	19			**SANDY CLAY (CL)** Medium stiff, light gray ∇	20	104	1560	
20	5	12			**CLAYEY SAND (SC)** Medium dense, light gray	22	106	1210	
25	6	10			**SILTY CLAY (CL)** Stiff, gray-blue	23	99	2240	
					Medium stiff, with silty sand (SM) lenses				
30	7	18				31	91	1570	
					BOTTOM OF BORING AT 31-1/2 FEET				
35									
40									
45									

Station: 14+582 (meters) Offset: -40 (meters:positive=east) (598029.03/1873044.54)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RBPS-57

Date Drilled: 2/12/87
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 16171X - RETENTION BASIN AND PUMP STATION
Surface Elevation: 36.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	20				**CLAYEY GRAVEL AND AC PARTICLES - FILL**	11	111	1140	
5	2	21				**SILTY SAND (SM), ROCK FRAGMENTS AND ASPHALT FRAGMENTS - FILL** Dark gray-black				+#4=44% -#200=10%
						FILL				
10	3	16				**SILTY CLAY (CL)** Stiff, brown	23	96	2150	
15	4	36				**SILTY CLAY (CL)** Hard, gray	28	94	10100	
						3/2/87				
20	5	27				**SILTY CLAY (CL)** Medium, light gray	18	111	1750	
	6	10					24	101	1830	
25	7	21				**SILTY CLAYEY SAND (SM-SC)** Medium dense, blue-gray Grading to clayey silt with fine sand				
30										
35	8	17					21	104	2790	
						BOTTOM OF BORING AT 36-1/2 FEET				
40										
45										

Station: 14+578 (meters) Offset: -61 (meters:positive=east) (598038.64/1873025.40)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RBPS-58

Date Drilled: 2/12/87
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 16171X - RETENTION BASIN AND PUMP STATION
Surface Elevation: 35.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						MIXED SILTY CLAY, GRAVEL, SAND, SILT AND CLAY - FILL				
	1					← Fiberglass	8	103		
5										
						FILL ↕				
	2	24				**SILTY CLAY (CL)** Stiff, brown	7	116	1410	
10	3	24				Dark brown	30	84	3850	
						SILTY CLAY (CL) Very stiff, light gray				
15	4	35					24	102	5140	
20	5	22				Stiff, with some gravel ∇				
25	6	10				**SILTY CLAY (CL)** Medium stiff, light blue-gray	23	100	1250	
						SILTY SAND (SM) Dense, blue-gray				
30	7	30								
						BOTTOM OF BORING AT 31-1/2 FEET				
35										
40										
45										

Station: 14+569 (meters) Offset: -97 (meters:positive=east) (598060.46/1872993.79)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: REAL1-1

Date Drilled: 5/29/62

Type of Boring: 6 inch Auger

Hammer/drop (lb/in): 140lb/30in

Remarks: From 5135 - SOIL INVEST.GUAD.RIV.PROJ.-REALIGN.WITHIN REACH 1 - 6/62

Surface Elevation: 3.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
					SANDY SILT Medium dense, dry, with 79% rock fragments (Road ????)				
	1-1	4			**BAY MUD** Soft, light green gray to gray black, traces of peat ▽	65	60	1120	
5									
					Increase in peat content				
	1-2	2				109	41	440	
10									
15	1-3					86	51	360	
20									
	1-4					55	67	340	
25									
30					**SAND** Loose, green-gray, with 50% gravel (1/8 to 3/4 inch diameter)				
					BAY MUD Soft, light green-gray				
	1-5								Lost Sample
35									
					SILTY CLAY Stiff, moist, banded brown, light gray-green				
40					**SAND** Medium dense to dense, green, medium grained				
	1-6	30				25	98		Hole Caving from 41' to 47-1/2'
45									

Station: 6+542 (meters) Offset: -76 (meters:positive=east) (603778.88/1868954.06)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: REAL1-1
(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
50	1-7 ▨	62			▒		16	116		
						BOTTOM OF BORING AT 51 FEET				
55										
60										
65										
70										
75										
80										
85										
90										
95										

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 2 of 2	Fig.

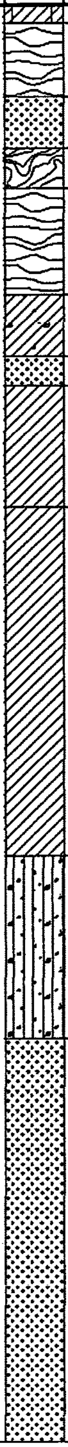
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: REAL1-2

Date Drilled: 5/29/62
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 5135 - SOIL INVEST.GUAD.RIV.PROJ.-REALIGN.WITHIN REACH 1 - 6/62

Surface Elevation: 3.5 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						CLAYEY SILT Loose, tan-gray				
	2-1	5				**BAY MUD** Medium stiff, gray, traces of peat ▽	35	86	1240	
5						**SAND** Loose, green-gray, medium grained				
						BAY MUD Soft, wet, gray, with traces of peat				
	2-2	14				**BAY MUD** Stiff, moist, mottled gray	23	102	4600	
10						**SILTY CLAY to SANDY SILTY CLAY** Very stiff, damp to wet, light brown				
						SAND Medium dense, wet, brown, fine to medium grained				
15	2-3	13				**SILTY CLAY** Stiff, moist, mottled gray-brown	26	101	1490	
						SILTY CLAY Stiff to very stiff, mottled blue-gray				
20	2-4	21					30	94	3980	
25	2-5	18					28	95	3300	
30						**CLAYEY SILT to CLAYEY SAND** Medium dense, wet, fine grained				
35						**SAND** Loose, wet, gray-green				
	2-6									Lost sample
40										Hole Caving from 40' to 50'
45										

Station: 6+363 (meters) Offset: -71 (meters:positive=east) (603928.80/1868897.39)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: REAL1-2

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
50	2-7 ▧	97			░		18	111		
						BOTTOM OF BORING AT 51-1/2 FEET				
55										
60										
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: REAL1-3

Date Drilled: 5/29/62
Type of Boring: 6 inch Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 5135 - SOIL INVEST.GUAD.RIV.PROJ.-REALIGN.WITHIN REACH 1 - 6/62
Surface Elevation: 3.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						PEAT WITH ROOTS				
						BAY MUD Soft, damp, mottled gray brown, with roots				
	3-1	9					30	93	1990	
5										
						SILTY CLAY Medium stiff, wet, black ▼				
						SILTY CLAY Stiff to very stiff, damp, mottled tan				
	3-2	30					21	106	8210	
10										
15						**SANDY CLAY** Very stiff, light green-gray-tan ▽				
	3-3	40				**SAND** Dense, light green-gray-tan, medium grained, trace gravel	15	119	1310	
						SILTY CLAY Very stiff to hard, damp, blue-gray				
20										
25						**SILTY CLAY** Stiff, moist, mottled light brown-gray-green				
	3-4	11					31	96	750	
30						**CLAYEY SILT to CLAYEY SAND** Medium dense, wet, gray				
						SAND Loose, wet				Hole Caving from 31' to 47-1/2'
35										
	3-5	29					29	95	1180	
40										
						Medium dense to dense				
45										

Station: 6+133 (meters) Offset: -100 (meters:positive=east) (604082.30/1868774.80)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 2 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: REAL1-3

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	3-6	58				**SAND with GRAVEL** Dense, green, coarse grained sand	8	129		
50						BOTTOM OF BORING AT 50 FEET				
55										
60										
65										
70										
75										
80										
85										
90										
95										

7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-G1

Date Drilled: 9/2/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 69.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	18				**CLAYEY SILT (ML) FILL** Moderately to well compacted, dry, dark brown, some well graded sand, little fine gravel	12	103	800	
5	2	15				**CLAYEY SILT (MH) FILL** Moderately to well compacted, moist, dark brown, trace fine sand FILL	27	80	2220	LL=62 PI=27
10	3	16				**SILTY CLAY (CL)** Stiff, moist, mottled gray and reddish brown, trace fine sand	33	81	2470	
15	4	13					35	83	3100	
20	5	19				**SILTY SAND (SM)** Medium dense, wet, brown with gray mottling, fine sand	20	98		
						SILTY CLAY (CH) Very stiff, moist, dark gray				
25	6	16				**SANDY SILT (ML)** Stiff, moist, grayish brown, trace clay, fine sand	25	99		PP=2.5tsf
						SILTY CLAY (CL) Stiff, moist, dark gray, trace fine sand, slight organic odor ∇				
30	7	17					25	98	2870	
35	8	18				Becomes olive gray with blue-gray mottling, no odor	29	95	2260	
40	9	17				Becomes dark gray with no mottling, slight organic odor	30	93	2480	
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: (meters) Offset: (meters:positive=east) (/)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-G2

Date Drilled: 9/2/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 69.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	14			▨	**SILTY CLAY (CL) FILL** Moderately to well compacted, moist, dark brown, trace well graded sand, trace fine gravel	23	87	1780	
5	2	16			▨		26	86	4000	
					▨	FILL				
10	3	16			▨	**SILTY CLAY (CL)** Stiff, moist, mottled brownish gray and reddish brown, trace fine sand	33	83	3290	
15	4	14			▨	No sand	36	86	2440	LL=45 PI=20
20	5	19			▨	Becomes light brown with reddish brown mottling, little fine sand	29	92	2930	
						BOTTOM OF BORING AT 21-1/2 FEET No groundwater encountered ATD				
25										
30										
35										
40										
45										

Station: (meters) Offset: (meters:positive=east) (/)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R1

Date Drilled: 11/12/92

Type of Boring: 8 inch Hollow Stem Auger

Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 70.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SANDY SILT - SILTY SAND (ML-SM) FILL Moderately compacted, moist, brown, fine sand, trace rootlets				
	1	8				FILL	9	86	1280	
						SILTY CLAY (CL) Medium, moist, brown, trace fine sand				
5	2	8					15	89	1640	
						Becomes very stiff, gray with red brown mottling, increased plasticity, no sand				
10	3	22					24	93	4820	
15	4	22				Becomes gray and red brown mottled, trace fine sand, trace rootlets	22	94	5020	
						SANDY CLAY (CL) Medium, moist, olive gray, fine sand				
20	5	10					26	99	910	
						▽ **SILTY CLAY (CL)** Medium, moist, dark olive gray, trace fine sand				
25	6	7					46	73	1040	
30	7	11				Little fine sand	25	100	1040	
						SILTY SAND (SM) Loose, wet, gray and brown mottled, trace clay, fine sand				
35	8	8								
	9	7					24			
40						**SANDY CLAY (CL)** Medium, moist, dark olive gray, fine sand				
	10	9					28	96	1000	
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: (meters) Offset: (meters:positive=east) (/)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R10

Date Drilled: 9/3/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 42.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	21				**SILTY CLAY (CL) FILL** Moderately compacted, dry, dark brown, little fine sand, trace fine gravel, contains fine sand lenses FILL	12	105		PP>4.5 tsf
5	2	14.				**SILTY CLAY (CL)** Stiff, moist, dark brown	29	84	2190	
10	3	26				**SILTY CLAY (CH)** Stiff, moist, gray with reddish brown mottling	35	83	3880	LL=76 PI=42
15	4	14				Becomes dark gray with reddish brown mottling	31	87	2950	
						SILTY CLAY (CL) Stiff, moist, dark gray				
20	5	25				∇ SILTY SAND (SM) Lens, Medium dense, wet, brown with reddish brown mottling, some gravel	12	124		+#4=36% -#200=17%
25	6	11				Becomes olive gray, little fine sand	26	98	2130	
30	7	16				**SANDY CLAY (CL)** Stiff, moist, greenish gray, fine sand, little organic odor	31	91	1350	
35	8	13				Becomes mottled olive and dark gray	20	107		+#4=2% -#200=53%
40	9	11				**SILTY CLAY (CL)** Medium, moist, greenish gray, trace fine sand	29	94	1350	
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: 15+823 (meters)   Offset: 37 (meters:positive=east)   (597177.20/1873920.47)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R11

Date Drilled: 9/3/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION
Surface Elevation: 42.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						GRAVELLY SANDY SILT (ML) FILL Moderately compacted, dry, light brown				
	1	16				**SILTY SAND (SM) FILL** Moderately compacted, moist, dark brown, fine sand	22	89		
5	2	24				**SILTY CLAY (CL) FILL** Moderately compacted, moist, dark brown FILL	21	102	9850	
10	3	33				**SILTY CLAY (CL)** Very stiff, moist, gray with reddish brown mottling	32	85	5760	
15	4	13				**SANDY CLAY (CL)** Stiff, moist, light grayish brown with reddish brown mottling, fine sand	24	102	1520	
20	5	15				**SILTY CLAY (CL)** Stiff, moist, gray with reddish brown mottling, some fine sand, some calcite nodules ∇	25	100	2130	
25	6	17				**SANDY CLAY (CL)** Stiff, moist, light gray and brown, fine sand	23	103		+#4=0% -#200=65%
30	7	22				Becomes olive brown, increase in fine sand	25	100	2690	
35	8	50/5"				**GRAVELLY SAND (SW)** Very dense, wet, dark gray, trace silt, well graded sand, fine gravel	11	113		+#4=21% -#200=2%
40	9	50/5"								
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: 15+616 (meters) Offset: 28 (meters:positive=east) (597289.75/1873765.66)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R2

Date Drilled: 9/11/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 70.0 _ feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	8				**SILTY CLAY (CL) FILL** Poorly compacted, dry, dark brown FILL	14	88		
	2	11				**SILTY SAND (SM) FILL** Moderately compacted, dry, light brown	6	91		
5	3	8				**SILTY CLAY (CL)** Medium, moist, dark brown	18	84	1710	
10	4	23				Becomes very stiff, brown with reddish brown mottling	29	86	6280	
15	5	20				Becomes mottled gray and reddish brown	26	91	6300	
20	6	16				**SILTY SAND (SM)** Medium dense, moist, olive brown, fine sand	11	95		
25	7	10				Becomes loose, olive gray, trace clay	20	102		
						SILTY CLAY (CH) Medium, moist, dark gray, trace fine sand				
30	8	17					28	91	1300	
						CLAYEY SAND (SC) Loose, wet, olive gray, fine sand ▽				
35	9	10					25	100	1560	
						Increase in clay				
40	10	15					25	99		
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: (meters) Offset: (meters:positive = east) (/)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R3

Date Drilled: 9/10/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 68.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	11				**SILTY SAND (SM) FILL** Moderately compacted, dry, dark brown, fine sand	7			+#4=2% -#200=45%
	2	11				**SILTY CLAY (CL) FILL** Moderately compacted, moist, brown	21	81	2050	
5	3	19					15	95	3340	
						FILL				
						SILTY CLAY (CH) Very stiff, dry, brown, trace fine sand				
10	4	24								LL=58 PI=26
15	5	19				Becomes moist, black with reddish brown mottling	25	94	7040	
						SILTY CLAY (CL) Very stiff, moist, gray with reddish brown mottling				
20	6	22					33	85	4790	
25	7	13				Becomes stiff, gray with dark brown and reddish brown, mottling	38	79	3300	
30	8	11					21	106	3080	
35	9	55				∇ **SANDY GRAVEL (GW-GM)** Dense, wet, dark grayish brown, well graded sand, well graded gravel	8			+4#=50% -#200=7%
40	10	51								
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: (meters) Offset: (meters:positive=east) (/)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R4

Date Drilled: 9/10/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 58.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	33				**SILTY CLAY (CL) FILL** Moderately compacted, dry, dark brown, little well graded sand, trace fine gravel	7	105		
	2	29				**SILTY SAND (SM) FILL** Well compacted, dry, light brown, well graded sand, little gravel	6			+#4=16% -#200=30%
5										
	3	26				Fine sand, no gravel	9	98		+#4=0% -#200=57%
						Sporadic drilling, possible voids				
10						FILL				
	4	16				**SILTY CLAY (CL)** Very stiff, moist, dark brown, little fine sand	19	97	6870	
						SILTY SAND (SM) Medium dense, dry brown, well graded sand, little fine gravel				
15	5	25					6			+#4=13% -#200=12%
20						**SILTY CLAY (CL)** Stiff, moist, mottled dark gray and brown, slight organic odor				
	6	9					31	91	2170	
25						▽				
	7	14				**SILTY CLAY (CH)** Stiff, moist, dark bluish gray, slight organic odor	46	75	2040	
						SILTY CLAY (CL) Medium, moist, gray, trace fine sand				
30	8	10					26	98	1000	
35						Becomes stiff				
	9	16					26	99	2690	
40	10	15					27	97	1300	
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: 17+402 (meters) Offset: 31 (meters:positive=east) (595896.80/1874832.58)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R5

Date Drilled: 9/9/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 59.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	13				**CLAYEY SILT (ML) FILL** Moderately compacted, dry, dark brown, little fine sand. Well graded gravel, some black silty clay below 2 feet	10	97		
	2	18								
5	3	25				**SILTY CLAY (CL) FILL** Moderately compacted, dry, dark grayish brown	25	90	5250	
10	4	36				Becomes dark brown FILL	23	90	7460	
						SILTY CLAY (CL) Stiff, moist, mottled gray and brown				
15	5	24				**SILTY CLAY (CH)** Hard, moist, black	16	101	8650	
						SANDY SILT (ML) Very stiff, moist, mottled light brown and light gray brown with black speckling				
20	6	27					9	92		+#4=5% -#200=63%
						SILTY CLAY (CL) Very stiff, moist, mottled gray and light gray-brown				
25	7	16					35	81	4910	
						Becomes stiff, moist, dark gray with iron-oxide staining, trace fine sand ▽				
30	8	16				Becomes stiff, bluish gray with olive mottling	21	107	2640	
35	9	17				**SANDY CLAY (CL)** Stiff, moist, mottled gray and olive, fine sand	25	102	2220	
						SILTY CLAY (CL) Stiff, moist, mottled gray and olive, little fine sand				
40	10	17					26	98	2080	
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: 17+245 (meters) Offset: 34 (meters:positive=east) (596033.68/1874756.48)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R6

Date Drilled: 9/9/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 55.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	23				**SILTY CLAY (CL) FILL** Moderately compacted, moist, dark brown and dark gray, trace fine sand	24	92	2860	
5	2	19				FILL	20	83	1450	
10	3	29				**SILTY CLAY (CL)** Very stiff, moist, mottled brown and gray	22	93	7070	
15	4	22				**CLAYEY SILT (ML)** Stiff, dry, mottled brown and gray	9	91	3310	LL=33 PI=9
						SILTY CLAY (CH) Stiff, moist, black				
20	5	32				**SILTY SAND (SM)** Medium dense, dry, light brown with gray mottling, fine sand	7	102		
25	6	17				**SILTY CLAY (CL)** Stiff, moist, mottled gray and brown	27	90	9680	
30	7	10				**SILTY CLAY (CH)** Hard, moist, black Becomes dark gray with reddish brown mottling Becomes stiff, no mottling, slight organic odor	35	84	2610	
35	8	13				**SANDY CLAY-CLAYEY SAND (CL-SC)** Stiff, moist, gray with olive brown mottling, fine sand	22	102		+#4=0% -#200=54%
40	9	16				∇	25	97	2820	
45						BOTTOM OF BORING AT 41-1/2 FEET				

Station: 17+132 (meters) Offset: 34 (meters:positive=east) (596131.39/1874699.58)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R7

Date Drilled: 9/8/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 55.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY (CL) FILL Poorly compacted, moist, dark brown and dark gray, trace fine sand				
	1	9					18	89		
5	2	18				Becomes moderately compacted, dark brown FILL	18	104	7450	
						SILTY CLAY (CH) Very stiff, dark gray and reddish brown mottled				
10	3	16					25	85	4610	LL=61 PI=34
						CLAYEY SILT (ML) Stiff, dry, mottled light brown and brown, little fine sand				
15	4	12				**SILTY CLAY (CL-CH)** Very stiff, moist, dark gray with reddish brown mottling	31	86	4060	LL=50 PI=28
20	5	15				**SANDY CLAY (CL)** Medium, moist, mottled reddish brown and olive, fine sand	31	91	1480	
						SILTY SAND (SM-SP) Medium dense, moist, mottled light brown and reddish brown				
25	6	13				**SILTY CLAY (CL-CH)** Stiff, moist, dark gray, slight organic odor ▽	49	72	2650	
						Some gravel				
30	7	34				**SILTY SAND (SM-SP)** Dense, wet, grayish brown, little well graded gravel	13	122		+4#=15% -#200=21%
35	8	38								
						GRAVELLY SAND (SW) LENS trace silt				
						SANDY CLAY (CL) Medium, moist, gray and olive, fine sand				
40	9	10					23	104	1480	+#4=42% -#200=6%
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: 16+974 (meters) Offset: 36 (meters:positive=east) (596268.50/1874620.91)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: RHM-R7
(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						NOTE: After the boring was drilled to a depth of 41.5 feet, it was backfilled with bentonite grout. A 27 foot deep well was then installed in a separate hole located about 8 feet to the north of the original boring.				
50										
55										
60										
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R8

Date Drilled: 9/4/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 53.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						CLAYEY SILT (ML) FILL Moderately compacted, dry, brown				
	1	26				**SILTY CLAY (CL) FILL** Moderately compacted, dry, mottled dark brown and dark gray	17	100	5800	
5	2	21				Trace fine sand FILL	14	100	2490	
						SILTY CLAY (CL) Stiff, moist, grayish brown with reddish brown mottling				
10	3	23					22	91	3620	
						SANDY SILT (ML) Medium, dry, mottled yellow-brown and brown, little fine sand, trace fine gravel				
15	4	19				**SILTY CLAY (CL)** Very stiff, moist, mottled gray and reddish brown	32	83	4340	+#4=2% -#200=83%
20	5	18				Becomes stiff, mottled gray and brown, little fine sand	26	99	3560	
25	6	12				Becomes slightly iron-oxide stained ▽	34	87	2170	
30	7	16				**SILTY CLAY (CL-CH)** Medium, moist, dark bluish gray, slight organic odor	33	88	1910	LL=45 PI=28
35	8	19				**SILTY CLAY (CL)** Stiff, moist, mottled gray and olive-brown, some fine sand	21	107	2910	
40	9	11				**SANDY CLAY-CLAYEY SAND (CL-SC)** Medium, wet, olive gray, fine sand	24	98	610	
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: 16+794 (meters) Offset: 42 (meters:positive=east) (596426.91/1874535.69)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R9

Date Drilled: 9/4/92
Type of Boring: 8 inch Hollow Stem Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION
Surface Elevation: 54.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY SAND (SM) FILL Poorly to moderately compacted, dry, brown, fine sand				
	1	10				**SILTY CLAY (CL) FILL** Moderately compacted, dry, dark brown, trace fine sand	16	84	880	
5	2	17				**SILTY SAND (SM) FILL** Moderately compacted, dry, dark brown, fine sand FILL	11			
10	3	26				**SILTY CLAY (CL)** Very stiff, moist, mottled gray and brown, trace fine sand	22	89	4620	
						CLAYEY SILT (ML) Stiff, moist, mottled light brown and gray brown				
15	4	23				**SILTY CLAY (CL)** Very stiff, moist, dark brown with reddish brown mottling	23	86	3400	
20	5	35				Becomes mottled reddish brown and gray	23	100	6940	
25	6	15				**SILTY CLAY (CH)** Stiff, moist, dark gray ▽	37	83	2390	LL=63 PI=35
30	7	25				**SILTY CLAY (CL)** Stiff, moist, gray with olive mottling, trace fine sand	25	100	2400	
35	8	12				Medium, little fine sand	29	93	1870	
40	9	17				**SANDY CLAY - CLAYEY SAND (CL-SC)** Medium, wet, olive gray, fine sand	26	98	650	
						BOTTOM OF BORING AT 41-1/2 FEET				
45										

Station: 16+693 (meters) Offset: 45 (meters:positive=east) (596516.18/1874487.31)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

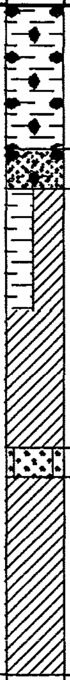
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-1

Date Drilled: 7/7/69
Type of Boring: 4 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 3.6 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		6				**Organic Silty CLAY (OL)** Firm, dark gray, with gravel and rock pieces ▽	28			
5		3				**Gravelly SAND (SW)** Very loose, dark gray, coarse grained with rock pieces	37			
						Silty CLAY (OL/CL) Soft, dark gray, (BAY MUD)	33			LL=31 PI=17
10		12				**Silty CLAY (CL)** Stiff, gray, with a trace of gravel (BAY MUD)	36			
						Medium, brown				
15		14				**Silty SAND (SM)** Dense, gray	27			
						Silty CLAY (CL) Stiff, tan, trace of gravel	24			LL=38 PI=18
20		14					33			
						BOTTOM OF BORING AT 22 FEET				
25										
30										
35										
40										
45										

Station: 6+663 (meters)   Offset: 198 (meters:positive=east)   (603704.45/1869242.61)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-2

Date Drilled: 7/7/69
Type of Boring: 4 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 2.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/Remarks
0	▯	20			●	**Clayey GRAVEL (GC)** Medium dense, dark brown, slightly organic	74			
1.5					▨	**Silty CLAY (CL)** Very stiff, gray to dark gray, slightly organic, (BAY MUD) ∇				
5	▯	6			●	**Gravelly SAND (SW)** Loose, dark gray, coarse	33			
					▨	**Silty CLAY (CL)** Firm, dark gray, (BAY MUD)				
10	▯	12			▨	**Silty CLAY (CL)** Stiff, tan, trace gravel	25 21			
15	▯	11			▨		57 30			
20	▯	29			▨	Very stiff with very little gravel				
21.5						BOTTOM OF BORING AT 21-1/2 FEET				
25										
30										
35										
40										
45										

Station: 6+711 (meters) Offset: 192 (meters:positive=east) (603656.24/1869243.99)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

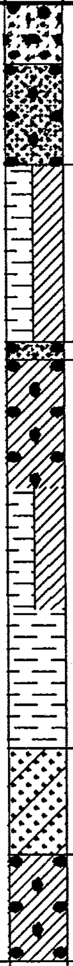
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-3

Date Drilled: 7/8/69
Type of Boring: 4 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 0.5 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		100+				**GRAVEL, SAND - Mix (GW)** Very dense, brown				
						SAND - Gravelly (SW) Very dense, brown				
5		16				**Silty CLAY (CL/OL)** Stiff, dark gray, organic with some peat and wood shavings (BAY MUD)	20			
10		12				**Gravelly SAND (SW)** Medium dense, brown gray				
						Silty CLAY (CL) Stiff, dark gray, with some gravel (BAY MUD)				
15		15				Slightly organic (CL-OL); very stiff	55			LL=35 PI=20
20		7				**Silty CLAY (OL)** Firm, dark gray, with peat (BAY MUD)	28			
25		7				**Clayey SAND (SC)** Loose, bluish gray, fine grained	21			
30		16				**Silty CLAY (CL)** Stiff, tan, with some gravel	28			
						BOTTOM OF BORING AT 31-1/2 FEET				
35										
40										
45										

Station: 6+983 (meters) Offset: 104 (meters:positive=east) (603564.56/1869246.53)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-4

Date Drilled: 7/8/69

Type of Boring: 4 inch Continuous Flight Auger

Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 5.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		5				**ROOTS, TRASH**				
						Silty CLAY (OL) Firm, black/brown, organic, with peat ∇	177			
5		2				**Highly organic CLAY (OH-OL)** Very soft, black/brown, with peat and wood shavings	23			
10		2				Very soft to soft, black	59 35			
15		12				**Silty CLAY (CL)** Stiff, tan	24			
20		9				**Gravel SAND (SP-SM)** Loose, light brown **Silty CLAY (CL)** Stiff, tan				
25						BOTTOM OF BORING AT 21-1/2 FEET				
30										
35										
40										
45										

Station: 7+036 (meters) Offset: -97 (meters:positive=east) (603357.61/1869259.96)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-5

Date Drilled: 7/8/69
Type of Boring: 4 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 4.8 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		5				**TRASH** Firm, brown, wood shavings, grass roots, some clay				
						Silty CLAY (CL-OL) Firm, black, slightly organic, (BAY MUD)				
5		7					27			
						▽				
10		6				**Silty CLAY (CL-OL/OH)** Firm, black, organic (BAY MUD)	38			
15		27								
		18				**Silty CLAY (CL)** Very stiff, tan, with some gravel	21			
20		13				**Gravelly SAND (SP-GP)** Medium dense, gray, coarse grained	29			
						BOTTOM OF BORING AT 21-1/2 FEET				
25										
30										
35										
40										
45										

Station: 7+045 (meters) Offset: -145 (meters:positive=east) (603308.69/1869259.34)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

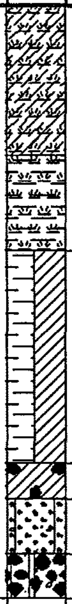
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-6

Date Drilled: 7/8/69
Type of Boring: 4 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 5.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
		2				**MISCELLANEOUS FILL (OH-PT)** Very soft, black, highly organic with fresh grass roots ▽				
5		13				**DUMP** Firm, black, highly organic with peat and gravel and wood shavings	23			
						Silty CLAY (OL-CL) Stiff, dark gray, traces of peat and grass roots				
10		5								
		13					25			
15		14				**Silty CLAY (CL)** Stiff, tan, with some gravel	20			
						Silty SAND (SM) Medium dense, gray, medium grained				
		37				**Sandy GRAVEL (GP-GM)** Very dense, gray, with some fines	12			
20						BOTTOM OF BORING AT 19-1/2 FEET				
25										
30										
35										
40										
45										

Station: 7+081 (meters) Offset: -218 (meters:positive=east) (603230.40/1869279.92)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SBYC-15

Date Drilled: 4/6/83
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482-W-2000 - SOUTH BAY YACHT CLUB RELOCATION
Surface Elevation: -1.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY (CL-CH) FILL Poorly compacted, moist, dark gray and brown, with scattered rock fragments				
	1	6				FILL 2 DAYS AD	18			
						SILTY CLAY (CH) Stiff, dark gray and brown mottled				
5	2	9					25	97	2050	
						(BAY MUD)				
						SILTY CLAY (CL) Very stiff, light brown, with some fine sand				
10	3	20					19	110	6240	
						Slightly more plastic (CL-CH), hard, light brown and light gray mottled				
15	4	16				With cemented nodules	22	107	8670	
						BOTTOM OF BORING AT 16-1/2 FEET				
20										
25										

Station: 6+464 (meters)   Offset: 150 (meters:positive=east)   (603925.82/1869144.19)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SBYC-16

Date Drilled: 4/6/83
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482-W-2000 - SOUTH BAY YACHT CLUB RELOCATION

Surface Elevation: -1.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY (CL-CH) FILL Poorly compacted, moist, dark gray and brown, with rock fragments and traces of broken asphalt concrete				
	1	4				Less plastic (CL), brown FILL 2 DAYS AD	30	91	730	
						SILTY CLAY (CH) Soft to medium, dark brown-gray, with some organic material ∇				
5						(BAY MUD)				
	2	14				**SILTY CLAY (CH)** Stiff, brown and gray mottled	23	103	3170	
						Slightly less plastic (CL-CH), light brown				
10										
	3	13					23	104	3020	
15						Brown				
	4	8								
						SILTY CLAY (CL-ML) Medium, brown, with lenses and layers of Sandy to Clayey Silt (ML) and Clayey Sand (SC-SM)				
						SILTY SAND (SM) Loose to medium dense, gray-brown				
						BOTTOM OF BORING AT 19 FEET				
20										
25										

Station: 6+453 (meters) Offset: 123 (meters:positive=east) (603928.90/1869113.64)

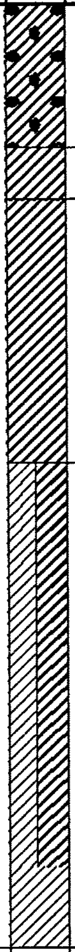
Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SBYC-17

Date Drilled: 4/6/83
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482-W-2000 - SOUTH BAY YACHT CLUB RELOCATION
Surface Elevation: -1.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	4				**SILTY CLAY (CL-CH) FILL** Poorly compacted, moist, dark gray and brown (MIXED CLAY FILL WITH SOME GRAVEL)	21	97		
						2 DAYS AD ▼ FILL	23	101		
						SILTY CLAY (CH) FILL Poorly compacted, wet, dark brown-gray with pieces of rusty metal and glass				
5						**SILTY CLAY (CH)** Medium, dark gray				
	2	7				Stiff, dark gray to black ▽ (BAY MUD)	30	91	2240	
						SILTY CLAY (CL-CH) Very stiff, brown and gray mottled				
10	3	18				Light brown and gray	22	107	4680	
15						Less plastic (CL), stiff, light brown				
	4	16					22	106	3220	
						BOTTOM OF BORING AT 16-1/2 FEET				
20										
25										

Station: 6+479 (meters) Offset: 118 (meters:positive=east) (603896.76/1869121.10)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SBYC-18

Date Drilled: 4/6/83
Type of Boring: 6 inch Continuous Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 15482-W-2000 - SOUTH BAY YACHT CLUB RELOCATION

Surface Elevation: -1.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						SILTY CLAY (CL and CH) FILL Poorly to moderately compacted, moist, brown to black (MIXED CLAY FILL WITH SAND & GRAVEL)				
	1	11				FILL	17	112		
						SILTY CLAY (CH) Medium, wet, dark brown-gray to black, with some organic material				
5	2	10				Stiff	31	89	2290	
						(BAY MUD)				
						Gray				
	3	12					23	103	4040	
						SILTY CLAY (CL-CH) Very stiff, gray and brown mottled				
10						Less plastic (CL), light brown				
	4	28					17	115	4530	
15										
						SILTY CLAY (CL) Stiff, brown and gray mottled				
	5	11				Grading to fine Sandy Clay (CL-ML), very silty				
20						BOTTOM OF BORING AT 20 FEET				
25										

Station: 6+485 (meters) Offset: 141 (meters:positive=east) (603897.29/1869144.82)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-10

Date Drilled: 8/23/96

Type of Boring: 4-7/8in Rotary Wash

Hammer/drop (lb/in): 140lb/30in

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE

Surface Elevation: 48.9 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	20	>4.5			**Fat CLAY (CH) FILL** Very stiff, dark olive gray with gray brown staining, some fine sand	24			
	2	16	>4.5			**Fat CLAY (CH) FILL** Very stiff, very dark gray with strong brown mottling, minor fine sand FILL	23			
5	3	22	>4.5			**Lean CLAY (CL) with sand** Moist, dark grayish brown with yellow brown stains and dark olive mottling, some fine sand	22			
						Silty SAND (SM) Medium dense, moist, olive gray, fine sand				
10	4	30	>4.5			**Lean CLAY (CL)** Very stiff to hard, moist, dark olive gray with yellow brown stains, minor fine sand	19	82	1570	
15	5	27	2.3->4.5			**Fat CLAY (CH)** Very stiff, moist, dark gray and light olive brown with yellow brown staining Dry to 16-1/2 feet, then introduced drilling mud for rotary wash	26			
						Fat CLAY (CH) Very stiff, moist, black, trace sand				
20	6	12	1.5			**Clayey SAND (SC)** Medium dense, moist, light olive gray with yellow brown mottling, fine sand	33			
						Lean CLAY (CL) Stiff, moist, dark olive brown, minor fine sand				
25	7	90 psi 240 psi				Greenish gray with rust staining				LL=32 PI=17 Su=1120psf
						Sandy lean CLAY (CL) Medium stiff, moist, olive brown with some gray mottling, medium plasticity, fine sand				
30	8	4	1.0				26			
35	9	10	0.8-1.3			Dark olive brown with gray mottling	23	101	1230	
						Sandy lean CLAY (CL) Medium stiff, very dark gray with dark olive brown stains, abundant fine sand				
40	10	11	0.3-1.3				25	99	750	
						Silty SAND (SM) Loose, very dark gray, fine to medium sand, zones of poorly graded sand (SP)				
	11	11	0.75				25	103	1670	
45						**Lean CLAY (CL) with sand** Medium stiff, dark gray, medium plasticity, some fine sand				

Station: 16+260 (meters)   Offset: -11 (meters:positive=east)   (596861.56/1874220.13)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SDB-10

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						BOTTOM OF BORING AT 45 FEET				
50										
55										
60										
65										
70										
75										
80										
85										
90										
95										

7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-11

Date Drilled: 8/26/96
Type of Boring: 6in Solid Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 47.2 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						9-1/2 inches Asphalt Concrete over **Well-graded SAND (SW) FILL - Olive gray**				
	1	27	>4.5			**Clayey SAND (SC) FILL with gravel** Medium dense, moist, yellow brown, fine to coarse sand and gravel	6	100		
5	2	24	>4.5			FILL **Well Graded SAND (SW) FILL** Medium dense, moist, olive gray, fine to coarse sand and minor gravel	8	106		
						Lean CLAY (CL) with sand Hard, moist, olive brown, some fine sand, minor coarse sand, some fine to coarse gravel				
10	3	19	>4.5			**Fat CLAY (CH)** Hard, very dark gray with black and gray mottling and yellowish brown and gray stains	20			
						▽				
15	4	8	1.5- 1.8			**Sandy Silty CLAY (CL-ML)** Medium stiff, moist, dark gray with brown mottling and yellowish brown stains, fine sand	29	95	1800	+#4=0 -#200=51%
20	5	5	1.25			**Lean CLAY (CL) with sand** Soft to medium stiff, dark gray with dark yellowish brown stains, fine sand, roots-like organic matter (dark color)	28	96	1230	
						Fat CLAY (CH) Very stiff, moist, olive brown, some fine sand				
25	6	11	2.3- 3.0				26	98	4670	
						BOTTOM OF BORING AT 26-1/2 FEET				
30										
35										
40										
45										

Station: 16+353 (meters)   Offset: -69 (meters:positive=east)   (596751.88/1874216.97)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-12

Date Drilled: 8/26/96
Type of Boring: 6in Solid Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 46.5 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	21	>4.5			**3-1/2 inches Asphalt Concrete** **Fat CLAY (CH) FILL** Hard, moist, olive with dark olive gray mottling and olive yellow stains and some dark stains, some fine to coarse sand FILL	16	111	10350	
	2	23	3.25				22	98	2970	
5	3	10	2.0			**Clayey SAND (SC)** Medium dense, moist, dark olive brown, fine sand, poorly graded, loose from 5 to 7 feet	25	96		
10	4	20	2.5			**Fat CLAY (CH)** Stiff, moist, dark olive gray with olive yellow stains, trace coarse sand, trace silt Very stiff, very dark olive gray with olive stains also light gray soil color (varies)	42	79	4500	LL=92 PI=56
15	5	9	1.25			Stiff, black with grayish brown stains, trace organic matter, faint organic odor ▼ ▽	30	90	2410	
20	6	10	1.25			**Clayey SAND (SC)** Loose, moist, gray with olive mottling, fine sand, trace fine gravel	23	102		
25	7	17	2.5			**Lean CLAY (CL) with sand** Very stiff, moist, dark olive gray, some fine sand, trace fine gravel, some voids	21			
						BOTTOM OF BORING AT 26-1/2 FEET				
30										
35										
40										
45										

Station: 16+287 (meters) Offset: -70 (meters:positive=east) (596807.98/1874182.77)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-13

Date Drilled: 8/28/96
Type of Boring: 5-1/2 inch Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 46.0 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	15	3.0		21			
	2	11	0.8- 1.0		18	89		
5	3	14	2.5		31	81	3550	
10	4	17	1.8- 2.0		37	80	2770	
15	5	6	0.8- 1.0		51	71	1690	
20	6	100 psi 500 psi						
25	7	24			10			
30								
35								
40								
45								

MATERIAL DESCRIPTION

6 inches Asphalt Concrete over 6 inches Aggregate Base over 6 inches Sandy lean CLAY (CL)
FILL

Lean CLAY (CL)
Very stiff, moist, olive with red yellow stains, some fine to coarse sand, trace fine gravel, medium plasticity

Clayey SAND (SC)
Medium dense, moist, dark brown, fine sand, poorly graded

Fat CLAY (CH)
Very stiff, moist, dark olive brown with trace black organic matter and abundant yellow brown stains, trace fine sand
Stiff, dark gray with dark yellow brown and black stains

Silty SAND (SM)
Loose, moist, dark olive brown with gray mottling, medium grained, poorly graded ▼

Fat CLAY (CH)
Medium stiff, moist, black with yellow brown and red brown stains, trace organic matter, trace sand and gravel, blocky texture

Sandy lean CLAY (CL)
Soft, moist, dark olive gray, medium plasticity

Poorly graded SAND (SP)
Medium dense, olive gray, medium to coarse sand, trace gravel, approximately 5% fines

Well-graded GRAVEL (GW)
Medium dense, wet, dark olive, fine to coarse gravel and sand

BOTTOM OF BORING AT 26-1/2 FEET

Station: 16+232 (meters) Offset: -74 (meters:positive=east) (596853.37/1874152.06)

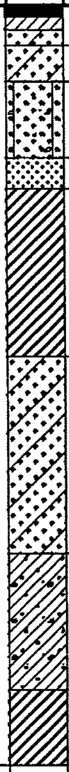
7/1/99 GUADE GUADE

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-14

Date Drilled: 8/28/96
Type of Boring: 5-1/2 inch Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 44.0 feet (approx.)



Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	16	2.8		**4 inches Asphalt Concrete over 4 inches Clay over 8 inches Clayey SAND FILL** FILL	14	92		
	2	8			**Clayey SAND (SC)** Medium dense, moist, dark olive brown, fine sand, poorly graded	17	92		
5	3	9			**Silty SAND (SM)** Loose, moist, dark olive brown with dark olive gray mottling	22	85		
					Poorly graded SAND (SP) Loose, moist, olive brown with olive gray stains, trace fines				
10	4	9	1.3- 1.5		**Fat CLAY (CH)** Stiff, moist, very dark gray with dark yellow brown mottling, trace fine sand	44 27	79 93	3240	
15	5	4	0.5		**Sandy lean CLAY (CL)** Soft, moist, gray with dark grayish brown mottling, trace gravel, fine sand ∇ Light olive brown with abundant yellowish brown mottling	30	94	260	+#4=0 -#200=57%
20	6	5	0.5- 0.8		**Sandy lean CLAY (CL)** Medium stiff, moist, light olive brown with yellowish brown mottles and gray stains, blocky texture, medium plasticity, some fine sand	28	94	910	
	7	11	1.3- 1.8		**Fat CLAY (CH)** Stiff, moist, light olive brown with yellow brown stains and some gray mottling, some fine sand	25	99	2440	
25					BOTTOM OF BORING AT 25 FEET				
30									
35									
40									
45									

Station: 16+259 (meters) Offset: -118 (meters:positive=east) (596808.61/1874127.61)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-15

Date Drilled: 8/26/96
Type of Boring: 6in Solid Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE

Surface Elevation: 45.2 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Sandy SILT (SM) FILL Moist, brown				
	1	15	>4.5			FILL	21	100	4890	
	2	7	>4.5			**Fat CLAY (CH)** Very stiff, moist, dark grayish brown with some yellow brown mottling, some sand	24	92		
5	3	8	2.75			**SILT (ML)** Loose, moist, dark olive brown, some fine sand	16	94		
						Silty SAND (SM) Loose, moist, olive brown, fine sand, poorly graded				
10	4	14	1.75			**Fat CLAY (CH)** Stiff, moist, olive brown, minor fine sand	27	95	2810	
15	5	13	1.75			Black with dark olive brown mottling ▼	33	89	3510	
						▽				
20	6	39				**Well-graded GRAVEL (GW) with sand** Dense, wet, dark gray brown with olive brown stains, fine to coarse sand and gravel	10	128		
25	7	10				**Silty SAND (SM) with gravel** Loose, wet, olive gray, some fine to coarse gravel, fine to coarse sand				+#4=38% -#200=23%
						BOTTOM OF BORING AT 26-1/2 FEET				
30										
35										
40										
45										

Station: 16+291 (meters) Offset: 55 (meters:positive=east) (596867.55/1874292.97)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-16

Date Drilled: 8/26/96
Type of Boring: 6in Solid Flight Auger
Hammer/drop (lb/in): 140lb/30in

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE

Surface Elevation: 45.3 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						Loose Soil with Organics (OL)				
	1	15	>4.5			**Sandy lean CLAY (CL) FILL** Hard, moist, brown	14	110		LL=36 PI=16
	2	16	3.8			**Lean CLAY (CL) FILL** Hard, moist, dark olive brown with very dark brown mottling, trace fine to coarse sand	17	98		
5	3	15	2.8-3.3			FILL	29	88		
						Fat CLAY (CH) Very stiff, moist, dark olive brown with some dark gray and dark yellow brown staining, some fine sand				
10	4	9	0.8			**Fat CLAY (CH)** Medium stiff, moist, black, minor fine sand	28	95	1190	
15	5	13				**Poorly graded SAND (SP)** Medium dense, wet, very dark gray, trace fine gravel and coarse sand	19	99		
20	6	17				Dark brown				+#4=5% -#200=8%
25	7	7				**Poorly graded SAND (SP-SM) with silt** Loose, wet, dark olive brown, trace fine gravel	22			+#4=7% -#200=7%
						BOTTOM OF BORING AT 26-1/2 FEET				
30										
35										
40										
45										

Station: 16+280 (meters)   Offset: -89 (meters:positive=east)   (596804.58/1874163.10)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-7

Date Drilled: 8/22/96
Type of Boring: 4-7/8in Rotary Wash
Hammer/drop (lb/in): 140lb/30in

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 49.3 feet (approx.)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (tsf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
	1	17	>4.5			**Fat CLAY (CH) FILL** Stiff, moist, dark gray with dark yellow brown staining, trace fine sand, blocky texture	21			
5	2	24	>4.5			**Lean CLAY (CL) FILL** Hard to very stiff, moist, gray with abundant dark yellow brown staining	18			LL=38 PI=17
	3	31	>4.5			**Fat CLAY (CH) FILL** Hard, moist, gray and dark brown gray with dark yellow brown staining FILL	25	95	6080	
10	4	17	2.8			**Fat CLAY (CH)** Medium stiff, moist, dark brown gray with minor dark yellow brown staining, trace rootlets and fine sand	34 61	87 69	1900 1900	
15	5	7	1.3				46 45	76 77	1450 1290	
						Sandy SILT (ML) Soft, wet, dark brown gray, poorly graded fine sand, slow dilatency				
20	6	8	1.2			**Fat CLAY (CH)** Medium stiff, moist, black and dark gray with trace dark yellow brown staining, slight organic odor	44			
25	7	8	1.5			**Sandy lean CLAY (CL)** Medium stiff, moist, pale olive with trace strong brown staining, fine sand, medium plasticity	28	95	1890	
						Silty SAND (SM) Loose, moist, olive with some dark yellow brown staining				
30	8	9	0.8			**Sandy lean CLAY (CL)** Medium stiff, moist, pale olive with some dark yellow brown staining, medium plasticity, fine sand	38	90	1490	
35	9	17	1.5			**Silty SAND (SM)** Medium dense, moist, pale olive, fine sand	27	95		Non-Plastic
40	10	30				**Well-graded SAND (SW-SM) with gravel and silt** Dense, wet, dark brown, medium to coarse sand, fine to coarse gravel Well-graded SAND (SW-SM)...(Continued)				+#4=35% -#200=8%
	11	33					13			
45						BOTTOM OF BORING AT 45 FEET				

Station: 16+362 (meters)   Offset: -39 (meters:positive=east)   (596758.67/1874247.40)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SDB-7

(continued)

Depth, Feet	Samples	Blows/Ft	Pocket Pen. (ksf)	Torvane (ksf)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, pcf	Unconfined Compressive Strength, psf	Other Tests/ Remarks
						NOTE: No groundwater reading was taken due to the presence of drilling fluid				
50										
55										
60										
65										
70										
75										
80										
85										
90										
95										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-2

Date Drilled: 10/2/97
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES US101; down hole hammer

Surface Elevation: 10.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1					**Gravelly lean CLAY (CL) with sand - FILL** Moderately compacted, damp, brown, fine gravel, well graded sand	9			LL=36 PI=15
1	2	33				Dark brown and gray Encountered large obstruction at 1.2 meters	11	19.0		Taped auger at joints for a water seal
	3	21	360			FILL	17	17.2	212	
2						**Lean CLAY (CL)** Very stiff, moist, brown, trace fine sand				
3	4	30	145			**Fat CLAY (CH)** Very stiff, moist, black, becoming gray at 2.9 meters	31	14.0	252	
4						**Lean CLAY (CL) with sand** Stiff, moist, gray, brown and reddish brown mottled, fine sand ▼				
5	5	19	335			Silty Sand (SM) lens - Medium dense, wet, gray and brown mottled, fine sand Medium	19	17.2	45	
6	6	25	120			Trace sand	24	16.0	88	
7										
8	7	27				**Silty SAND (SM)** Medium dense, wet, bluish gray, fine sand, decrease in silt at 7.6 meters with some fine gravel	21	16.6		
9	8	12				**Lean CLAY (CL)** Medium, moist, bluish gray, trace fine sand	28			
10	9	31	95			Bluish gray and olive green mottled	29	14.9	43	
11										
12	10	22	120			Some gray nodules Bluish gray and reddish brown mottles, no nodules	21	16.6	55	
13	11	24	190			Stiff, increase in plasticity	30	14.9	124	
14						BOTTOM OF BORING AT 13.7 METERS				
15										

Station: 14+191 (meters) Offset: -180 (meters:positive=east) (598189.22/1872853.93)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-3

Date Drilled: 10/2/97
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES ; down hole hammer

Surface Elevation: 10.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Gravelly lean CLAY (CL) with sand - FILL Moderately compacted, damp, brown, fine gravel, well graded sand				Concrete chunks up to 0.6m in diameter on surface near boring B-3
1	1	52				Less gravel, brown and gray FILL	11	19.1	966	
2	2	23	>430			**Lean CLAY (CL)** Very stiff, moist, brown, trace fine sand	13	17.8	203	
3	3	25	335			**Fat CLAY (CH)** Very stiff, moist, dark brown to black, trace well graded sand	27			
4	4	15	145			**Lean CLAY (CL)** Medium, moist, brown and reddish brown mottled. Dark gray and brownish gray with brown mottles, and increase in plasticity at 4.3 meters	41	12.3	81	
5										
6	5	12	45			**Fat CLAY (CH)** Soft, moist, bluish gray, some organics and wood chunks relatively undecomposed	70	8.5	44	
7	6	2	75			**Lean CLAY (CL)** Soft, moist, bluish gray and olive green mottled, trace fine sand, trace small wood chunks	24	15.6	47	
8										
9	7	34				**Well-graded SAND (SW)** Dense, wet, gray	10			
10						BOTTOM OF BORING AT 9.1 METERS				
11										
12										
13										
14										
15										

Station: 14+172 (meters) Offset: -149 (meters:positive=east) (598226.06/1872855.59)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-4

Date Drilled: 10/2/97

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES ; down hole hammer

Surface Elevation: 9.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Gravelly lean CLAY (CL) with sand - FILL Moderately compacted, damp, brown, fine gravel, well graded sand				Trace concrete chunks up to 0.6m in diameter on surface near boring B-4
1	1	38	>430			**Lean CLAY (CL) FILL** Moderately compacted, moist, brown and light brown, trace well graded sand	11	19.0	400	
2	2	34	385				22	15.7	151	
3	3	34	265			**Fat CLAY (CH) FILL** Moderately compacted, moist, dark brown and black	24	15.6	284	
4						**Lean CLAY (CL) FILL** Moderately compacted, moist, light brown Dark brown				
	4	46				**Silty SAND (SM) with gravel - FILL** Moderately compacted, moist, bluish gray, well graded sand, trace burnt wood, slight organic odor, fine gravel FILL	10	19.8		Dry to 4.3m after drilling, caved to 4.3m
5–6	5	21				**Poorly graded SAND (SP-SM) with silt and gravel** Medium dense, wet, gray, fine gravel	12			+#4=29% -#200=6%
7	6	13								No recovery
8						BOTTOM OF BORING AT 7.6 METERS				
9										
10										
11										
12										
13										
14										
15										

Station: 14+160 (meters)   Offset: -119 (meters:positive=east)   (598256.74/1872862.84)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

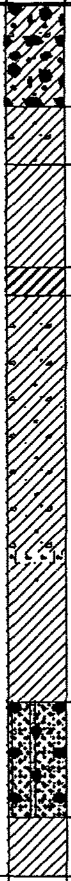
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-5

Date Drilled: 10/2/97
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES ; down hole hammer

Surface Elevation: 10.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						**Gravelly lean CLAY (CL) with sand - FILL** Moderately compacted, damp, brown, fine gravel, well graded sand				
1	1	54	>430			**Lean CLAY (CL) with sand - FILL** Moderately compacted, moist, brown, fine sand	10	19.1		
2	2	24	430			FILL **Lean CLAY (CL)** Stiff, moist, brown	14	17.4	166	
3	3	51	385			**Fat CLAY (CH)** Very stiff, moist, black, little well graded sand	26	15.1	340	
4	4	23	285			**Lean CLAY (CL) with sand** Stiff, moist, gray, brown and reddish brown mottled, fine sand, trace fine gravel	16	18.3	106	
6	5	27	95			102mm Silty Sand (SM) lens at 5.8 meters Medium, trace fine sand	26	15.3	93	
7	6	61				**Well-graded SAND (SW-SM) with silt and gravel** Dense, wet, brown and gray, fine gravel	10	19.7		
9	7	14				**Lean CLAY (CL)** Stiff, moist, olive gray, trace fine sand	23			
10						BOTTOM OF BORING AT 9.1 METERS				
11										
12										
13										
14										
15										

Station: 14+125 (meters)   Offset: -128 (meters:positive=east)   (598269.79/1872828.86)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: AA-6

Date Drilled: 10/2/97

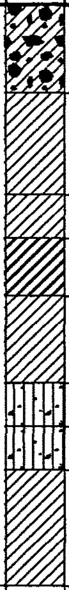
Type of Boring: 203 mm Continuous Flight Auger

Hammer/drop: 623 N/760 mm

Remarks: From 973061NA - PRELIMINARY INVESTIGATION - FUEL STORAGE AND DISPENSING FACILITY - for AMERICAN AIRLINES

Surface Elevation: 9.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
0–1						**Gravelly lean CLAY (CL) FILL** Damp, brown, fine gravel, some black (CH) inclusions				
1–2						**Lean CLAY (CL) FILL** Damp, light brown, trace fine sand and gravel, low plasticity FILL				
2						**Lean CLAY (CL)** Moist, brown				
3	1					**Fat CLAY (CH)** Moist, black and gray				
3–4	2					**Lean CLAY (CL)** Moist, brown and light brown				
4–5	3 4					**Sandy SILT (ML)** Moist, bluish gray, trace organics, fine sand				
5	5					**Sandy SILT (ML)** Moist, dark brown, fine sand				
5–6						**Lean CLAY (CL)** Moist, dark bluish gray with light gray mottles Some organics and wood, trace light gray nodules				
7						BOTTOM OF BORING AT 6.1 METERS Boring dry ATD				
8–15										



Station: 14+173 (meters)   Offset: -130 (meters:positive=east)   (598241.21/1872867.09)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: BSP-1

Date Drilled: 11/8/60
Type of Boring: 152 mm Power Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCS Job #4327 (12/60) - Proposed Bay Shell Plant Storage Tanks
Surface Elevation: -0.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	18				**CLAYEY SAND** Medium dense, damp, yellow, with rocks, shells and concrete	11	17.1		
						SANDY CLAY Hard, moist, gray-yellow, with rocks and concrete blocks ∇				
	2	42				**CLAYEY SAND** Dense, black, with rocks FILL	9	17.7	48	
	3	4				**SILTY CLAY** Soft to firm, blue-gray, with vegetation	54	10.5	45	
	4	8				**very SANDY CLAY with fine GRAVEL** Stiff, medium gray Grading	24	16.0	48	
						CLAYEY SAND Medium dense, yellow				
	5	12				**SILTY CLAY** Stiff, orange-gray	30	14.8	104	
						CLAYEY SAND Loose to medium dense, yellow				
						SILTY CLAY Stiff, tannish-gray	31	14.5	80	
	6	8				**CLAYEY SAND** Loose to medium dense, yellow Grading				
	7	20				**coarse SAND and fine GRAVEL** Medium dense, yellow	21	16.5		
						fine SAND Medium dense, yellow				
						BOTTOM OF BORING AT 13.4 METERS				

Station: 6+905 (meters) Offset: -133 (meters:positive=east) (603347.93/1869122.62)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 1 | Fig.

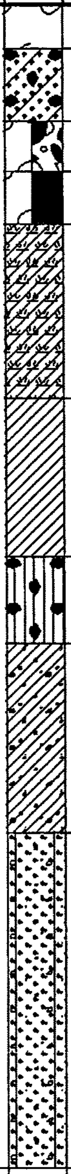
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: BSP-2

Date Drilled: 11/8/60
Type of Boring: 152 mm Power Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCS Job #4327 (12/60) - Proposed Bay Shell Plant Storage Tanks

Surface Elevation: -0.6 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					SHELLS Medium dense, dry to damp, white-gray				
1	1	24			**CLAYEY SAND with ROCKS** Dense, tan	11	19.0	218	
					SHELLS and ROCKS Medium dense, gray-white ▽				
2	2	7			**SHELLS and ASPHALT** Loose, dark gray FILL	32	12.6	24	
3	3	4			**SILTY CLAY** Firm, medium gray, with vegetation, compressible	58	9.9	36	
	4	9			**SILTY CLAY** Stiff, medium gray and yellow, with some vegetation	25	15.7	128	
6	5	4			**CLAYEY SILT** Loose, medium yellow, with some gravel	26	15.4	21	
7					**SANDY CLAY** Stiff, orange and light gray				
	6	9			**SILTY SAND** Loose to medium dense, medium yellow	22	17.1		
12	7	16				28	16.3		

BOTTOM OF BORING AT 12.2 METERS

Station: 6+910 (meters)   Offset: -98 (meters:positive=east)   (603380.96/1869135.93)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1   Fig.

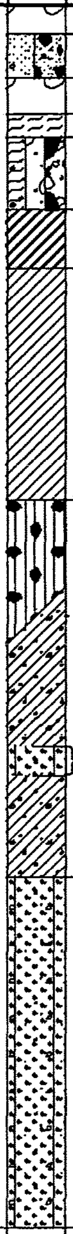
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: BSP-3

Date Drilled: 11/8/60
Type of Boring: 152 mm Power Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCS Job #4327 (12/60) - Proposed Bay Shell Plant Storage Tanks

Surface Elevation: -0.9 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	>100			**SHELLS** Medium dense, dry, white-gray	4			
					SAND and ROCKS Very dense, damp, medium brown				
	2	10			**SHELLS** Medium dense, damp, white-gray	47	10.2		
					WOOD				
	3	5			**SAND, ROCKS, SHELLS and WOOD** Loose to medium dense FILL				
					SILTY CLAY Firm, medium blue-gray	35	13.8	83	
	4	9			**SILTY CLAY** Stiff, dark gray and brown Lighter in color Yellowish-gray	31	15.6	131	
	5	13			**CLAYEY SILT** Medium dense, with some 25 mm gravel Grading	25	15.6	133	
	6	3			**SANDY SILTY CLAY** Stiff, orange and tan Thin Silty Sand lens	22	16.5	134	
	7	8			**SILTY SAND** Loose to medium dense, medium yellow	26	15.9		
					BOTTOM OF BORING AT 12.8 METERS				

Station: 6+895 (meters)
Offset: -61 (meters:positive=east)
(603422.23/1869122.56)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

7/1/99 GUADM GUADM

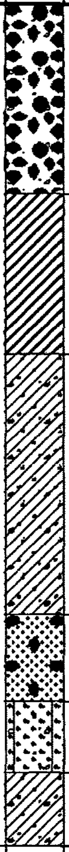
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-1

Date Drilled: 11/12/62
Type of Boring: Unknown
Hammer/drop: Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 0.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						**Sandy GRAVEL - FILL** Moderately loose, wet, brown FILL				
	1	15				**Silty CLAY** Moderately stiff, wet, black	30	14.4		
	2	25				**Sandy CLAY** Medium stiff, moist, mottled reddish brown and gray, laminated				No sample
	3	18					28	15.3		
	4	41				**Gravelly SAND** Dense, moist, gray				
						Silty SAND Dense, moist, reddish brown				
	5	14				**Sandy CLAY** Moderately soft, moist, blue-gray, fine-grained	27	15.7		Boring date unknown, date in heading refers to date water level read.
						BOTTOM OF BORING AT 8.8 METERS				

Depth, Meters: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Station: 6+582 (meters) Offset: 166 (meters:positive=east) (603780.06/1869199.12)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-2

Date Drilled: 11/12/62
Type of Boring: Unknown
Hammer/drop: Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 2.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	10				**Sandy SILT - FILL** Moderately firm, moist, light brown ∇	16	15.5		
1	2	1				**SAND and Sea Shells** Very loose, wet, gray	29	14.0		
2						FILL				
						Sandy CLAY Medium firm, wet, mottled reddish brown, with fine gravel				
3										
4	3	13					25	15.5		
						Silty SAND Dense, moist, reddish brown				
5	4	23					18	17.6		Boring date unknown, date in heading refers to date water level read.
6						BOTTOM OF BORING AT 5.8 METERS				
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+453 (meters)   Offset: 78 (meters:positive=east)   (603910.94/1869072.06)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 1 | Fig.

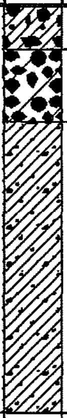
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-3

Date Drilled: 12/12/62
Type of Boring: Unknown
Hammer/drop: Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 2.7 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	8			**Gravelly CLAY** Firm, moist, reddish brown	24	15.6		
					∇				
1	2	21			**Clayey GRAVEL** Dense, moist, black	22	16.5		
					Sandy CLAY Medium stiff, moist, brown				
2									
	3	12				22	18.2		
3					Increasing fine SAND content				
4	4	16				22	16.5		Boring date unknown, date in heading refers to date water level read.
					BOTTOM OF BORING AT 4.3 METERS				
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

Station: 6+301 (meters)
Offset: 87 (meters:positive=east)
(604055.02/1869010.85)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-4

Date Drilled: 12/12/62
Type of Boring: Unknown
Hammer/drop: Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 2.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	11				**Sandy CLAY - FILL** Moderately firm, moist, brown	11	17.8		
1	2	5				**Gravelly CLAY - FILL** Medium firm to soft, moist, mottled brown and gray FILL	31	13.5		
2						**Sandy CLAY** Soft, wet, black, with organics and fine sand				
3	3	1					61	11.1		
4	4	1				Organics	58	9.4		
5	5	20				**Sandy CLAY** Stiff, moist, mottled reddish brown and gray	20	17.3		Boring date unknown, date in heading refers to date water level read.
6						BOTTOM OF BORING AT 5.8 METERS				
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+138 (meters) Offset: 32 (meters:positive=east) (604176.28/1868868.42)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-5

Date Drilled: 12/12/62
Type of Boring: Unknown
Hammer/drop: Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: -0.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					●	**Sandy GRAVEL** Moderately loose, moist, brown				
1	1 ▯	4			●	**Clayey GRAVEL** ▽ Medium loose, wet, black				No sample
2					▨	**Silty CLAY** Medium stiff, moist, black				Boring date unknown, date in heading refers to date water level read.
3						BOTTOM OF BORING AT 2.4 METERS				
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+542 (meters)   Offset: 143 (meters:positive = east)   (603825.58/1869167.82)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-6

Date Drilled: 12/12/62
Type of Boring: Unknown
Hammer/drop: Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: 1.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						COARSE GRAVEL ▽				
1						**Sandy GRAVEL** Moderately loose, moist, brown				
2						**Silty CLAY** Medium stiff, moist, black				Boring date unknown, date in heading refers to date water level read.
3						BOTTOM OF BORING AT 2.4 METERS				
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+615 (meters)
Offset: 189 (meters:positive=east)
(603694.36/1869257.22)

Project: 95-973017NB.00
URS Greiner Woodward Clyde
Sheet 1 of 1
Fig.

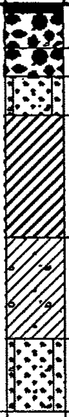
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GJJ-7

Date Drilled: 3/1/62
Type of Boring: Unknown
Hammer/drop: Unknown

Remarks: From Project E584-M1 - Gribaldo, Jacobs, Jones & Associates (c.1963)

Surface Elevation: meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						76 mm P.M.S. over 381 mm Baserock				
						Sandy GRAVEL Dense, moist, black ▽				
1	1	2				**Silty SAND** Loose, wet, black				
	2	3				**Silty CLAY** Moderately stiff, wet, black	34	14.1		No sample
2										
	3					**Sandy CLAY** Moderately stiff, moist, yellow brown	27	15.2		
3										
4						**Silty SAND** Moderately dense, wet, tan				Boring date unknown, date in heading refers to date water level read.
						BOTTOM OF BORING AT 4.3 METERS				
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+610 (meters)
Offset: 233 (meters:positive=east)
(603761.86/1869269.59)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

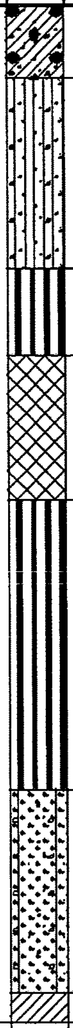
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB1

Date Drilled: 10/6/80
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 3.3 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		46			**SANDY CLAY (CL) with gravel - FILL** Very stiff, brown	10			-#200=60%
		9		53	**SANDY SILT (ML) FILL** Stiff, brown	19			-#200=71%
		6			**CLAYEY SILT (MH) FILL** Firm, gray, Bay Mud, mixed with fill	19			
		7			**GARBAGE - FILL** Consisting primarily of paper, with some glass fragments FILL	123			
		p		43	**CLAYEY SILT (MH)** Firm, gray, Bay Mud	49			
		7		43		22			
		5			**SILTY SAND (SM)** Loose, gray	21			-#200=32%
		8		77	**SILTY CLAY (CL)** Stiff, brown and gray BOTTOM OF BORING AT 10.7 METERS	34			

Station: 7+000 (meters) Offset: 61 (meters:positive=east) (603519.04/1869255.04)

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB10

Date Drilled: 10/8/80
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 2.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	▯	9			▨	**SANDY CLAY (CL)** Stiff, brown	11			
1										
	▯	5		62	▨		24			
2										
					▥	**CLAYEY SILT (MH)** Firm, gray				
3	▯	3		38	▥		26			
4					▥	Stiff				
	▯	12		96	▥		31			
5										
					▨	**SILTY CLAY (CL)** Hard, brown				
6	▯	17		67	▨		21			
						BOTTOM OF BORING AT 6.1 METERS				
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 7+458 (meters)   Offset: 74 (meters:positive=east)   (603443.21/1869707.23)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB2

Date Drilled: 10/6/80
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 2.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		11				**CLAYEY SAND (SC)** Stiff, brown	15			-#200=49%
		9					17			
		3		19		**CLAYEY SILT (MH)** Soft, gray to dark gray, Bay Mud	61			
		p		48		Firm	25			
		p		29			38			
		p		29			77			
		p		29			75			
		6		38			68			
		7		43			51			
		p				**SAND (SP-SM)** Loose, gray, fine grained, with some silt	28			-#200=7%

Depth scale: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Station: 7+119 (meters) Offset: 81 (meters:positive=east) (603516.08/1869375.46)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRI-EB2

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						BOTTOM OF BORING AT 14.8 METERS NOTE: Augers were advanced to 14.8 meters, but inflow of sand prevented further sampling				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB3

Date Drilled: 10/6/80

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 2.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		15				**SANDY CLAY (CL)** Stiff, brown	6			-#200=61%
1						**SILTY SAND (SM)** Medium dense, brown				
		12					14			-#200=46%
2										
						Grading to Sandy Silt (ML)				
3		p				**SANDY SILT (ML)** Medium dense, brown	15			-#200=50%
4										
5		p					16			-#200=66%
						CLAYEY SILT (MH) Stiff, gray, Bay Mud				
6		p		67		Stiff to firm	29			
7										
8		p		48			28 28			
9		p		67			26			
						SILTY CLAY (CL) Stiff, light brown BOTTOM OF BORING AT 9.5 METERS				
10										
11										
12										
13										
14										
15										

Station: 7+031 (meters)   Offset: -76 (meters:positive=east)   (603379.23/1869258.84)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB4

Date Drilled: 10/6/80
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)
Surface Elevation: 4.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	▯	26			░	**SILTY SAND (SM)** Medium dense, brown	26			-#200=37%
1					▨	**SILTY CLAY (CL)** Stiff, dark brown				
	▯	16			▨		17			
2					▥	**CLAYEY SILT (MH)** Very stiff, dark gray				
3	▯	10		139	▥		25			
4					▥	Stiff				
	▯	p		67	▥		22			
5					▥	Firm				
6	▯	p		29	▥		40			
7					▥	Stiff				
	▯	p		81 115	▨	**SILTY CLAY (CL)** Stiff, brown	32 20			
8						BOTTOM OF BORING AT 7.6 METERS				
9										
10										
11										
12										
13										
14										
15										

Station: 7+147 (meters)
Offset: -36 (meters:positive=east)
(603395.51/1869380.43)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB5

Date Drilled: 10/6/80

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 4.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	▯	37			▒	**CLAYEY SAND (SC)** Dense, brown	8			-#200=36%
1					▨	**SILTY CLAY (CL-CH)** Hard, black				
	▯	20		>240	▨		21			
2					▨	Very stiff				
3	▯	p		134	▨		24			
4					▥	**CLAYEY SILT (MH)** Gray, Bay Mud				
	▯	p			▥	No sample recovered, Bay Mud on outside of sampler				
5					▨	**SILTY CLAY (CL)** Very stiff, brown				
6	▯	p		144	▨		27			
						BOTTOM OF BORING AT 6.1 METERS				
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 7+236 (meters)

Offset: -51 (meters:positive=east)

(603363.90/1869464.89)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB6

Date Drilled: 10/8/80
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 4.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		34				**SILTY SAND (SM)** Medium dense, brown	5			-#200=22%
1		16				**SANDY SILT (ML)** Medium dense, brown, non-plastic	16			-#200=58%
2										
3		p					9			-#200=51%
4		p		29		**CLAYEY SILT (MH)** Firm, gray, Bay Mud	60			
5										
6		16		34		**ORGANICS** Black, mostly wood, strong "turpentine" odor	35 36			
7		p		24		**CLAYEY SILT (MH)** Soft, gray, Bay Mud	45			
8						Very soft				
9		p		10			85			
10		p		24		Soft	79			
11						Firm				
12		p		38			67			
13		p		10		Very soft	59			
14						Soft				
15										

Station: 7+512 (meters) Offset: -42 (meters:positive=east) (603318.64/1869734.51)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRI-EB6

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		p		14		Becoming sandy at 15.2 meters	59 33			-#200=81%
16						Firm				
		p		34		Brown Silty Clay at tip of sampler	33			
17						BOTTOM OF BORING AT 16.7 METERS				
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB7

Date Drilled: 10/8/80
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 2.7 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		8				**SANDY SILT (ML)** Firm, brown, non-plastic	15			-#200=86%
		8		53		**CLAYEY SILT (ML-MH)** Stiff, brown	42			
						Grading to Sandy Silt **SANDY SILT (ML-MH)** Soft, brown				
							24			-#200=51%
		3				**ORGANICS** Black, mostly wood fibers, strong odor	64			
						CLAYEY SILT (MH) Firm, gray, Bay Mud				
		6		24			61			
		5		29			82			
		p		24			75			
		p					49			
						Stiff				
		p		57			25			
		20		134		**SILTY CLAY** Brown	33			
						BOTTOM OF BORING AT 13.7 METERS				

Station: 7+774 (meters)   Offset: -38 (meters:positive=east)   (603198.48/1869935.79)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB8

Date Drilled: 10/8/80
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)
Surface Elevation: 3.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		16				**SANDY CLAY (CL)** Stiff, brown	13			-#200=60%
1						Very stiff				
		23					19			-#200=63%
2										
						CLAYEY SAND (SC) Firm, dark brown, organic odor				
3		7					21			-#200=40%
						SANDY CLAY (CL) Very stiff, brown-gray				
4										
		18					17			-#200=51%
5										
						CLAYEY SILT (MH) Firm, gray, Bay Mud				
6		20		29		**SILTY SAND (SM)** Medium dense, gray	24			-#200=47%
						BOTTOM OF BORING AT 6.1 METERS	24			
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 7+972 (meters) Offset: 42 (meters:positive=east) (603059.25/1870095.88)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRI-EB9

Date Drilled: 10/8/80
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-11, PA 9669 - GEOTECH. INVESTIGATION GUAD. IMPROV. - John V. Lowney & Associates (01/81)

Surface Elevation: 3.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		11		211		**SANDY CLAY (CL)** Hard, brown	16			-#200=73%
		6		38		**CLAYEY SILT (MH)** Firm, gray, Bay Mud	31			
		15		134		**SILTY CLAY (CL-CH)** Very stiff, gray to black	21			
		10		134			27			
		7		53		**SANDY CLAY (CL)** Stiff, brown	18			
						BOTTOM OF BORING AT 6.1 METERS				

Station: 7+695 (meters)   Offset: 49 (meters:positive=east)   (603316.59/1869938.26)

Project: 95-973017NB.00   URS Greiner Woodward Clyde   Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-1

Date Drilled: 10/20/82
Type of Boring: 152 mm Auger to 1.5m/Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 2.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY (CH) FILL Poorly compacted, damp, brown and gray, with traces of coarse sand, roots and zones of fine sand				
						Moist, brown-gray				
1	1	5					32	12.9	154	
						SANDY CLAY (CL-SC) FILL Poorly compacted, moist to wet, gray, with gravel 10/26/82				
2						**SAND (SW)** Loose, brown and gray, with fine gravel FILL				
	2	4				**SILTY CLAY (CH)** Very soft, dark gray to black				
3	3	2				(BAY MUD)	56	10.4		
						Black				
4	4	4								
5						With coarse sand, fine gravel, wood splinters				
						Soft, gray				
6	5	19				**SILTY CLAY (CH)** Medium, brown-gray and gray mottled, with some cemented nodules, stiff after 6.1 meters	33 22	13.5 16.2	65 189	
7										

Station: 6+130 (meters) Offset: 38 (meters:positive=east) (604186.45/1868866.43)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-1

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	6	21								
8						**GRAVELLY SAND (SP-GP)** Medium dense, gray				
	7	21				**SILTY CLAY (CL)** Stiff, orange-brown and gray mottled with brown, with fine sand and traces of gravel				
9										
10						More sandy				
	8	20				**SILTY SAND (SW-SM)** Medium dense, gray and brown, with fine gravel				
	9	13								+#4=7% -#200=12%
11						Silty clay (CL-ML) Sandy silt (ML-SM)				
						SILTY CLAY (CL) Stiff, orange-brown and gray mottled				
12										
	10	15				**SILTY SAND (SC-SM)** Medium dense, brown and gray, with some clay	22	17.1		
	11	25				**SILTY CLAY (CL-CH)** Very stiff, brown mottled				
13										
						BOTTOM OF BORING AT 13.1 METERS				
14										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-10

Date Drilled: 10/25/82
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 2.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						HETEROGENEOUS FILL Poorly compacted, damp to moist, brown, containing brick, sand, rock and concrete				
1	1	15					10	15.4		
						Brown-gray, with broken asphalt				
	2	19				**SILTY CLAY (CL) FILL** Poorly to moderately compacted, moist, brown-gray	20	16.2		
2										
						10/26/82				
						SILTY CLAY (CH) FILL Poorly compacted, wet, dark gray to black, with fine sand ▼				
3	3	25/ 51 mm				102 mm concrete slab at 3.0 meters (old building slab?) Brick, shells and rock fragments in clay matrix FILL	43			
4	4	18				**SILTY CLAY (CL-CH)** Very stiff, dark gray mottled with black, with traces of organic material	29	14.5	233	
5						**SILTY CLAY (CL-CH)** Very stiff, brown and gray mottled, with cemented nodules				
	5	30					23	16.5	284	
6						BOTTOM OF BORING AT 5.6 METERS				
7										

Station: 6+261 (meters)   Offset: 101 (meters:positive=east)   (604097.34/1869004.29)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT Santa Clara County, California	Log of Boring: GRIM-11

Date Drilled: 10/25/82
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: -0.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨	10/26/82 ▼ FILL **SILTY CLAY (CH) FILL** Poorly compacted, wet, brown-gray, with concrete, brick and rock fragments				
1	1	8			▨	**SILTY CLAY (CH)** Medium, black to dark gray, with organic material Very silty and soft below 1.1 meters (BAY MUD)	34	13.5		
2	2	15			▨	**SILTY CLAY (CH)** Stiff, dark gray-brown and black mottled, with wood fragments	25	15.7	177	
3	3	24			▨	**SILTY CLAY (CL-CH)** Stiff, orange-brown and gray mottled Becomes very stiff	19	17.6	259	
4 5 6 7						BOTTOM OF BORING AT 3.5 METERS				

Station: 6+327 (meters) Offset: 100 (meters:positive=east) (604038.30/1869034.03)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-12

Date Drilled: 10/26/82
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: -0.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						6 HRS AD ▼ **SILTY CLAY (CH) FILL** Poorly compacted, moist to wet, brown-gray, with shells, rock fragments and coarse sand FILL				
1	1	6				**SILTY SAND (SP-SM)** Loose, gray and brown				-#200=12%
						SILTY CLAY (CH) Medium, gray to dark gray, with fine sand				
	2	15				Stiff with decreasing sand content (BAY MUD)	29	14.9	172	
2						**SILTY CLAY (CH)** Stiff, gray with brown stains				
3	3	26				**SILTY CLAY (CL-CH)** Very stiff, orange-brown and gray mottled with brown, with lime streaks	21	17.0	259	
4						Stiff, brown and light brown				
5	4	13				**SANDY CLAY (CL-CH)** Medium, light brown mottled with orange and black	21	16.8	63	-#200=59%
						Becoming light brown and brown				
6	5	-				**SILTY SAND (SM)** Loose, light brown				
7						**SILTY CLAY (CL-CH)**				

Station: 6+498 (meters) Offset: 95 (meters:positive=east) (603866.98/1869106.71)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-12

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	6 ▨	12			▨	Medium, gray and orange brown mottled with gray	29	14.8	56	
					▨	Stiff				
8					▨					
9	7 ▨	32			▨	Very stiff, with tan	19	17.3	247	
10					▨					
	8 ▨	29			▨					
						BOTTOM OF BORING AT 10.7 METERS				
11										
12										
13										
14										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-13

Date Drilled: 10/26/82
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: -0.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY (CH) FILL Poorly compacted, moist, brown-gray, with shells and rock fragments FILL				
						SILTY CLAY (CH) Soft to medium, moist, dark gray, with organic material, sand lens at 0.6 meters (BAY MUD) 10/26/82				
	1	7					33	13.7	46	
1										
						SILTY CLAY (CH) Medium, moist, dark gray with brown, with roots Stiff				
	2	15					30	14.5	140	
2										
3						**SILTY CLAY (CL-CH)** Stiff, moist, light brown, orange-brown and gray, with nodules to 9 mm				
	3	17					19	17.1	173	
4										
	4	20								
5						Medium, (CL-ML)				
						SILTY SAND (SP-SM) Medium dense, gray and brown, fine-grained				
6										
						SILTY CLAY (CL-CH) Stiff, light brown and gray mottled				
	5	17					18	17.7	158	
						CLAYEY SAND (SC-SP) Medium dense, light brown and gray mottled				LL=24 PI=10
7										

Station: 6+531 (meters) Offset: 114 (meters:positive=east) (603833.25/1869135.87)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 2 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-13

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	6	12				Grading coarser				-#200=36% -#200=25%
8						**SILTY CLAY (CL)** Stiff, brown, with fine sand				
						Sand and fine gravel lens				
	7	13				Silty Sand (SM)	27	15.4	40	
9						Grading to Clayey Silt (ML)				
						SILTY SAND (SM) Medium dense, brown and gray				
10	8	22								
	9	18								
11						Grading to Sandy Silt (ML-SM)				
						With some clay				
12										
						Becoming Clayey Silt (ML-CL), with fine sand, medium dense				
	10	17								
13						BOTTOM OF BORING AT 12.8 METERS				
14										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-14

Date Drilled: 11/3/82
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: 3.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					SANDY SILT (ML-SM) FILL Poorly compacted, damp, brown, with inclusions of Silty Clay (CH) and some shell fragments				
1	1	12			**SILTY CLAY (CH) FILL** Poorly compacted, moist, gray, with brick, organics and rock fragments	31	13.0		
2	2	12			With lenses of Silty Sand (SM) ▼	35	13.0	58	
					Sandy zone (SP-SM)				
3	3	10			Sand lens				
					Sand lens				
4					Moderately compacted FILL				
					SILTY CLAY (CL-CH) Stiff, gray and dark gray mottled				
5									
6					BOTTOM OF BORING AT 5.6 METERS				
7									

Station: 6+564 (meters) Offset: 99 (meters:positive=east) (603789.97/1869129.81)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

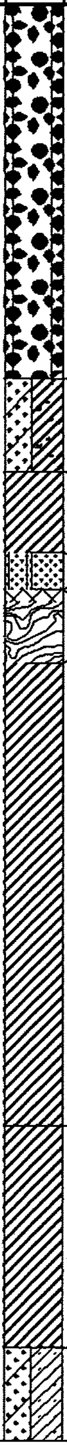
Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-2

Date Drilled: 10/21/82
Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Type of Boring: 152 mm Auger to 4.6m/Rotary Wash
Hammer/drop: 623 N/760 mm
Surface Elevation: 2.6 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					SILTY GRAVEL (GM) FILL Dry to damp, reddish-brown, with fragments of broken concrete, slightly clayey FILL				
1					Moist, brown to dark brown, with increasing clay 10/26/82				
2					**SANDY CLAY (CH-SC)** Very soft to soft, gray (DREDGED BAY MUD FILL) ▽				
	1	p			Sand (SP-SM)	44	11.9		
3					Massive wood (plywood in sampler tip)				
					SILTY CLAY (CH) Very soft, black, with wood fragments and lenses of very loose sand (SP-SM)				
4									
5	2	p			Stiff	33	14.0	109	
					SILTY CLAY (CH) Stiff, dark gray and brown mottled				
6	3	17				28	15.1	126	
					SANDY CLAY (CL-SC) Stiff, orange-brown and olive gray mottled				
7									

Station: 6+206 (meters) Offset: 45 (meters:positive=east) (604123.22/1868927.30)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 2 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-2

(continued)

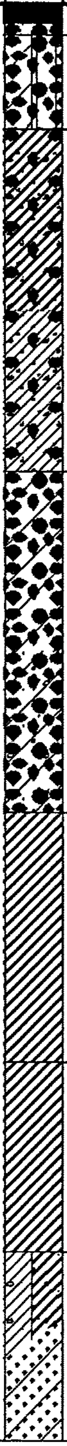
Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	4	24					28	16.7	149	-#200=54%
8										
						SAND (SP-SM) Medium dense, brown and gray, uniform and fine				
9	5	15								
	6	15								+#4=0% -#200=12%
10						Sand (SP) clean, gray				
	7	15				With some fine gravel to 9 mm				+#4=3% -#200=6%
11										
12	8	23								
13						**SILTY CLAY (CL-CH)** Hard, olive-gray and brown mottled, with calcareous nodules				
	9	53					16	18.4	784	
14						BOTTOM OF BORING AT 13.7 METERS				

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-3

Date Drilled: 10/21/82
Type of Boring: 152 mm Auger to 2.1m/Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 2.7 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					ASPHALT over BASE ROCK				
					SILTY GRAVEL (GM-GC) FILL Poorly compacted, damp, brown and gray				
					SILTY CLAY (CH) FILL Poorly to moderately compacted, damp, brown, with sand, fine gravel, and broken concrete				
1									
					Sandy, (CL), with rock fragments				
2					10/26/82 ▼				
					CLAYEY GRAVEL (GC) FILL Poorly compacted, brown, with gravel to 3/4 inch				
3									
					Intermixed rock fragments, sandy zones and silty clay, gray-brown FILL				
4					**SILTY CLAY (CH)** Very soft to soft, black (BAY MUD)				
	1	p							
					Stiff				
5						33	14.1	107	
	2	19			**SILTY CLAY (CH)** Stiff, dark gray and gray-brown mottled	27	15.2	110	
6									
					SILTY CLAY (CL-CH) Stiff, light brown and gray-brown, with fine sand				
					Grading to Clayey Sand (SC)				
7	3	19							

Station: 6+281 (meters) Offset: 98 (meters:positive=east) (604077.74/1869011.43)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-3

(continued)

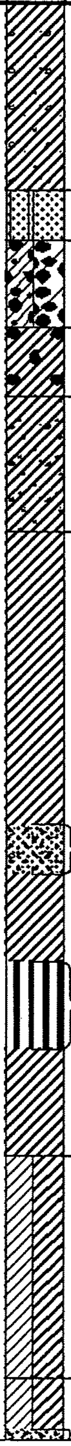
Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SAND (SP) Medium dense, brown and gray				
						Gray, coarser				
8										
	4	14								+#4=16% -#200=6%
						SILTY CLAY (CL-CH) Stiff, light brown and gray mottled, with fine sand				
9						Silty sand lens, (SM)				
	5	12				Less plastic (CL), medium, with interbedded layers of clayey sand	20	17.1	65	-#200=69%
10										
						SILTY SAND (SM) Medium dense, gray and brown Sandy silt (ML-SM), orange-brown with gray				
11	6	14								
						SILTY CLAY (CL) Stiff, orange brown and gray mottled				
						BOTTOM OF BORING AT 11.2 METERS				
12										
13										
14										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-4

Date Drilled: 10/22/82
Type of Boring: 152 mm Auger to 2.3m/Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 2.7 meters (approx.)



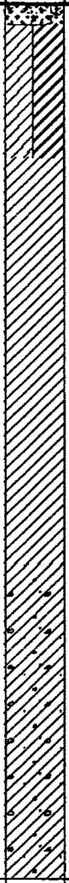
Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					SILTY CLAY (CH) FILL Poorly compacted, damp to moist, brown, with some sand With rock fragments, sandy zones and shells				
1	1	8				27	13.5		
					SILTY SAND (SP-SM) FILL Poorly compacted, moist, brown				
					CLAYEY GRAVEL (GC-CL) FILL Poorly compacted, moist to wet, brown				
	2	6			**SILTY CLAY (CH) FILL** Poorly compacted, moist, gray and brown, with gravel	27	14.9	93	
2					**SANDY CLAY (CH) FILL** Medium, moist, dark gray to black, with shell fragments, becomes soft after 2.3 meters 10/26/82 (DREDGED BAY MUD FILL) FILL				
3					**SILTY CLAY (CH)** Very soft to soft, dark gray to black, with organic material (BAY MUD)				
	3	p				53	11.0	23	
4	4	4			Sand lens	48	11.2	22	
5	5	7			Very silty, (MH)	44	11.8	26	
					Soft, black				
					SILTY CLAY (CL-CH) Stiff, gray, light gray and brown mottled, with calcareous nodules				
6	6	20				22	16.7	189	
7					**SILTY CLAY (CL-CH)** Very stiff, orange-brown and gray mottled				

Station: 6+421 (meters)   Offset: 83 (meters:positive=east)   (603946.42/1869060.93)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-4

(continued)

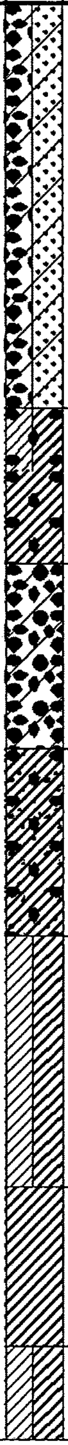
Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						with brown Sand lens				
8	7	38				Hard, with cemented nodules, (CL)	19	17.3	460	
						Less plastic (CL), stiff				
9										
	8	15					21	16.8	149	
						With fine sand				
10										
11	9	21								
						BOTTOM OF BORING AT 11.3 METERS				
12										
13										
14										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-5

Date Drilled: 10/22/82
Type of Boring: 152 mm Auger to 2.3m/Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 3.4 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SANDY GRAVEL (GC-SC) FILL Moderately compacted, damp, gray, with gray-brown clay, with some cobbles				
1	1	21					5	18.5		
	2	19				Moist	7	16.8		
2						**SILTY CLAY (CL-CH) FILL** Poorly to moderately compacted, moist, gray, with gravel, sandstone pieces, and shells, becomes (CH) after 2.3 meters 10/26/82				
						CLAYEY GRAVEL (GC) FILL ▼ Poorly compacted, brown, wet, with zones of gray silty sand (SP-SM)				
3	3	14					18	16.8		
						SILTY CLAY (CH) FILL Poorly compacted, dark gray, with sand, gravel and shells FILL ↑				
4										
						SILTY CLAY (CL-CH) Medium, dark gray to black, very silty (BAY MUD)				
5	4	12								
	5	11								
						SILTY CLAY (CH) Stiff, dark gray and brown mottled				
6	6	25*					27	15.1	177	
						SILTY CLAY (CL-CH) Very stiff, orange-brown and brown mottled with gray				
7										

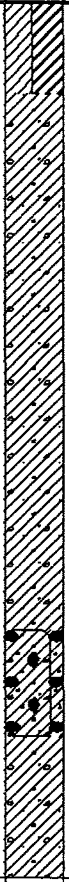
Station: 6+519 (meters)
Offset: 77 (meters:positive=east)
(603837.52/1869096.46)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-5
(continued)

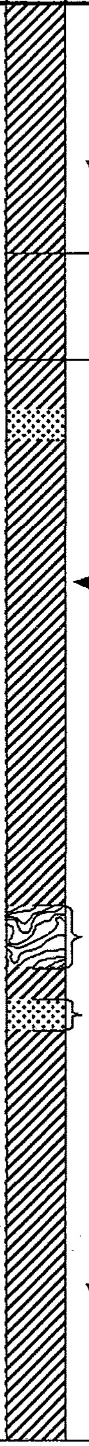


Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Less plastic (CL), gray-brown and light brown, with fine sand				
	7	17					19	17.0	198	
8										
9						Orange-brown and gray				
	8	14								
10										
						With coarse sand and fine gravel				
						Stiff, orange-brown and gray-brown mottled with red				
11	9	23					20	17.0	177	
						BOTTOM OF BORING AT 11.3 METERS				
12										
13										
14										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-6

Date Drilled: 11/3/82
Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Type of Boring: 152 mm Auger to 2.0m/Rotary Wash
Hammer/drop: 623 N/760 mm
Surface Elevation: 2.4 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY (CH) FILL Poorly compacted, damp, brown-gray, with zones of silty sand (SM), roots and wood				
						Wet				
1	1	4				11/8/82	44	11.8	45	
						SILTY CLAY (CH) FILL ▼ Poorly compacted, dark gray to black, with brown sand intermixed				
	2	3				**SILTY CLAY (CH)** Soft, dark gray and black, with seams and lenses of fine sand throughout layer, with some organic material, black sand (SP) layer at 2.0 meters (DREDGED BAY MUD FILL)	62	9.7		
2										
						Glass fragment noted in cuttings				
3										
	3	5					54	10.7	30	
4										
						With high concentration of organic material				
	4	6					31	13.7		
5						Sand (SP)				
6										
						With wood fragments				
	5	5					57	10.1	42	
7										

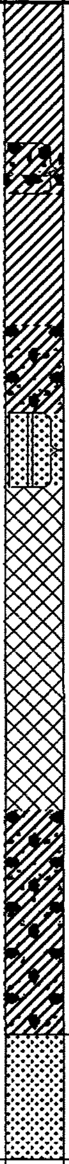
Station: 6+650 (meters)
Offset: 156 (meters:positive=east)
(603710.79/1869199.54)

Project: 95-973017NB.00
URS Greiner Woodward Clyde
Sheet 1 of 2
Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-6

(continued)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Black, with gray lenses of silty clay (CL-ML)				
	6	7				With gravel and fine sand	21	16.7		
8						Very soft, black	68			
						Soft, with coarse sand and fine gravel				
9						Silty sand (SP-SM)				
	7	8				Alternating layers of silty clay (CL-ML) to (CH) and silty sand (SM-SP)	61	9.6	37	
10										
11	8	10				With some coarse sand and cemented nodules in a clay matrix; fragments of coal and ceramic tile also noted				+#4=26% -#200=26%
						ESTIMATED BOTTOM OF DREDGED FILL				
12						**SAND (SP)** Dense, gray and brown, with trace gravel				
	9	44								
13						BOTTOM OF BORING AT 12.7 METERS				
14										

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 2 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-7

Date Drilled: 11/3/82
Type of Boring: 152 mm Auger to 2.0m/Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS
Surface Elevation: 3.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨	**SILTY CLAY (CH) FILL** Poorly compacted, moist, gray, with orange and brown staining and wood fragments Wet				
1	1	6			▨		58	10.1	96	
					▨	11/8/82 ▼				
	2	4			▨	**SILTY CLAY (CH) FILL** Soft, dark gray, with wood and brown silty sand	62	9.4	45	
2					▨	**SILTY CLAY (CH) FILL** Soft, black to dark gray, with thin sand lenses				
3	3	7			▨	(DREDGED BAY MUD FILL)	33	13.5		
					░	Sand (SP)				
4					▨					
	4	4			▨	With traces of shells, wood				
5					░	Black sand lens	47	11.3	26	
6	5	6			▨	Alternating layers of gray Silty Clay (CL-CH), black Silty Clay (CH), with Sand lenses (SP), with some wood	55	10.2	37	
7										

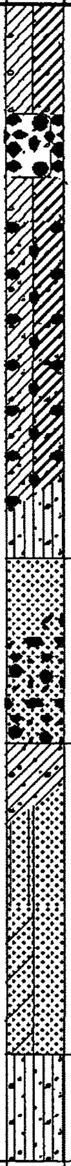
Station: 6+706 (meters) Offset: 171 (meters:positive=east) (603658.12/1869221.59)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-7

(continued)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Sandy Gravel lens (GP), medium dense, black				
8	6	8					52	10.7	35	
						Very soft, with gravel				
						Becoming soft with sand lenses				
9										
	7	12								
						Grading to Sandy Silt (ML)				
						SAND (SP) Medium dense, gray to black, with wood fragments				
10						Becomes gravelly with depth				
						ESTIMATED BOTTOM OF DREDGED FILL				
						SANDY CLAY (CL) Stiff, orange-brown and gray mottled, with some fine sand, some lime streaks				
11	8	21				Sand (SP-SM)				
						With interbedded layers of Sandy Clay (CL)				
12						**SANDY SILT (ML)** Medium dense to dense, gray				
	9	30								
						BOTTOM OF BORING AT 12.7 METERS				
13										
14										

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 2 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-8

Date Drilled: 10/25/82
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: 3.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨	**SILTY CLAY (CL-ML) FILL** Moderately compacted, damp, red-brown				
1	1	16			▨	**SILTY CLAY (CL-CH) FILL** Moderately compacted, moist, gray-brown and gray, with brick fragments	8 21	16.7 16.2	65	
2	2	23			▨	**SILTY CLAY (CL) FILL** Moderately to well compacted, moist, orange-brown, tan and brown, with rock fragments	19	17.6	338	
3	3	17			▨	**SILTY CLAY (CL) FILL** Stiff, moist, dark gray and black, with shell fragments and organic material	33	13.5	145	
4					▨	Dark gray and gray-brown				
5	4	21			▨	10/26/82 ▼	32	13.7	119	
6					▨	FILL ↑				
	5	11			▨	**SILTY CLAY (CH)** Medium, black, with organic material (BAY MUD)	37	13.0	72	
7					▨	**SILTY CLAY (CL-CH)** Stiff, dark gray with brown				

Station: 6+172 (meters) Offset: 138 (meters:positive=east) (604214.16/1868976.92)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GRIM-8

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
8	6	17				**SILTY CLAY (CL)** Stiff, gray with orange and brown, with some lime streaks and nodules	23	16.0	163	
						Brown and gray				
9										
	7	18								
10										
						Silty Sand (SM), brown and gray				
11	8	12				**SANDY SILT (ML)** Medium dense, gray, with fine sand lenses				
	9	8				**SILTY CLAY (CL-ML)** Medium, gray				
12										
	10	21				Becoming more plastic (CL), stiff, gray with brown	23	16.0	98	
13						BOTTOM OF BORING AT 12.8 METERS				
14										

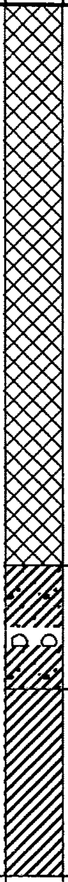
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIM-9

Date Drilled: 10/25/82
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482V - GUADALUPE RIVER IMPROVEMENTS

Surface Elevation: 2.3 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						HETEROGENEOUS FILL Poorly compacted, damp, brown and gray, comprised of a mixture of soils, rock fragments and broken concrete and asphalt				
	1	27				Moist	5	20.1		
1										
	2	28				With very high asphalt content				
2										
						10/26/82 ▼				
						SANDY CLAY (CH) FILL Very soft to soft, dark gray, with silt, 102 mm concrete slab at 3.0 meters (old building slab?)				
3						FILL				
						SILTY CLAY (CH) Medium, dark gray and black mottled				
4	3	17					33	14.0	61	
						BOTTOM OF BORING AT 4.3 METERS				
5										
6										
7										

Station: 6+224 (meters) Offset: 87 (meters:positive=east) (604124.67/1868975.47)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-1

Date Drilled: 10/17/60

Type of Boring: 152 mm Auger

Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 6.9 meters (approx.)

Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
				CLAYEY SAND Loose, dry, brown, with some gravel				
1	9			**SANDY SILTY CLAY** Stiff, dry, brown	14	14.3	158	
2	7			**CLAYEY SILTY SAND** Loose, damp, brown	13	14.8		
3	4			**SANDY SILTY CLAY** ▽ Soft to firm, dark gray	43	11.9	27	
4	5				45	11.9	36	
5	5			**SANDY SILTY CLAY** Firm to stiff, dark gray	38	12.4	59	
6	6			**CLAYEY SILTY SAND** Loose, dark gray	31	14.0	29	

BOTTOM OF BORING AT 8.7 METERS

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 11+742 (meters)

Offset: 9 (meters:positive=east)

(600455.88/1872395.71)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-10

Date Drilled: 10/18/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 3.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Loose **SILTY CLAY** Stiff to firm, brown				
1	1	7					14	14.0	200	
2	2	5					16	14.5	59	
3	3	5				∇	37	13.0	87	
4						**SILTY CLAY** Stiff, dark gray-brown				
5	4	7					29	14.9	125	
						Sandy				
6	5	10				Firm	38	12.9	56	
7						**SAND and CLAY layers** Loose, dark gray, with organic material				
8	6	4					44	11.9	42	
9						Gravel				
10	7	38				**GRAVELLY SAND** Dense, dark gray	16	18.1	33	
11						BOTTOM OF BORING AT 9.8 METERS				
12										
13										
14										
15										

Station: 9+434 (meters) Offset: 42 (meters:positive=east) (601942.04/1870918.81)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

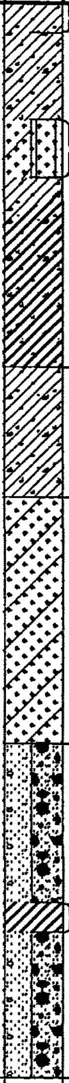
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-11

Date Drilled: 10/19/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 2.5 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Loose **SANDY SILTY CLAY** Firm to stiff, dark brown				
	1	5				Loose Clayey Silty Sand	16	14.3	45	
	2	5					34	13.0	87	
	3	7				**SANDY CLAY** Stiff, blue-gray, fine-grained				
	4	7				**CLAYEY SAND** Loose, dark gray	24	16.0	63	
	5	10								
						SAND and GRAVEL Very loose, black				
	6	2				Stiff, gray-brown Clay	35	13.7		

BOTTOM OF BORING AT 10.2 METERS

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 9+178 (meters) Offset: -55 (meters:positive=east) (601993.67/1870642.15)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

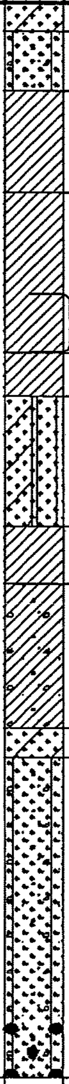
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-12

Date Drilled: 10/25/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 1.9 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks



CLAYEY SAND
Loose, moist, dark brown

SILTY SAND
Medium dense, dark brown

SILTY CLAY
Stiff, gray-brown

SILTY CLAY ∇
Stiff, yellow-brown

Traces of lime nodules

SILTY CLAY
Stiff, gray-brown

CLAYEY SANDY SILT
Loose, gray-brown

SILTY CLAY
Stiff, brown

SILTY CLAY
Firm to stiff, gray-brown, with fine sand

CLAYEY SAND
Loose, gray-brown

SILTY SAND
Loose to medium dense, gray-brown

Gravel

BOTTOM OF BORING AT 11.3 METERS

Station: 8+984 (meters) Offset: -42 (meters:positive=east) (602164.28/1870533.48)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-13

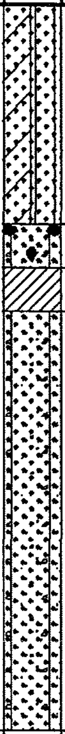
Date Drilled: 11/7/60

Type of Boring: 76 mm Wash

Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: -0.3 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1 2					**CLAYEY SAND to SILTY SAND** Loose, dark gray to black	40	12.4	9	
						SILTY SAND Loose, dark green-gray, with fine gravel				
						SILTY CLAY Soft, dark gray, with wood fragments				
						SILTY SAND Medium dense, gray to green-gray, fine-grained sand				
						BOTTOM OF BORING AT 7.6 METERS				

Depth scale: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 8+813 (meters)

Offset: 29 (meters:positive=east)

(602344.67/1870494.63)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

7/1/99 GUADM GUADM

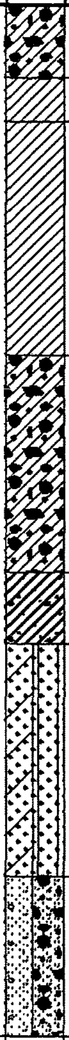
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-14

Date Drilled: 10/18/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 2.4 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	10			**SILTY CLAY** Loose, damp, brown, with gravel				
1					**SILTY CLAY** Stiff, damp, dark brown	22	16.0	273	
	2	14			**CLAY to SILTY CLAY** Stiff, damp, dark brown				
2						20	17.3	64	
					▽				
3	3	9							
4					**SILTY CLAY** Stiff, tan, with some gravel				
	4	5				25	16.0	71	
5									
6	5	10			**SANDY SILTY CLAY** Stiff, gray-brown	36	13.5	83	
7					**CLAYEY SILTY SAND** Loose, brown				
8	6	11				24	16.3	36	
9					**SAND and GRAVEL** Loose to medium dense, gray-brown				
10									
	7	33				17	17.3		
11					BOTTOM OF BORING AT 10.8 METERS				
12									
13									
14									
15									

Station: 8+556 (meters)   Offset: -55 (meters:positive=east)   (602508.29/1870279.18)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-15

Date Drilled: 10/27/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 1.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SANDY CLAYEY SILT Loose, moist, gray-brown, fine-grained				
1										
						SILT to CLAYEY SILT Loose, dark brown ▽				
2						**SILTY CLAY** Firm, gray-brown				
3										
4										
						CLAY with PEAT Soft, dark gray				
5										
6										
						SILTY CLAY to CLAYEY SILT Soft, dark gray				
7										
						SILTY SAND and fine GRAVEL Medium dense, dark blue-gray				
8						**CLAY** Firm, dark blue-gray				
9						**SILTY CLAY** Firm, green-gray				
						BOTTOM OF BORING AT 9.1 METERS				
10										
11										
12										
13										
14										
15										

Station: 8+450 (meters)   Offset: -137 (meters:positive=east)   (602548.64/1870151.46)

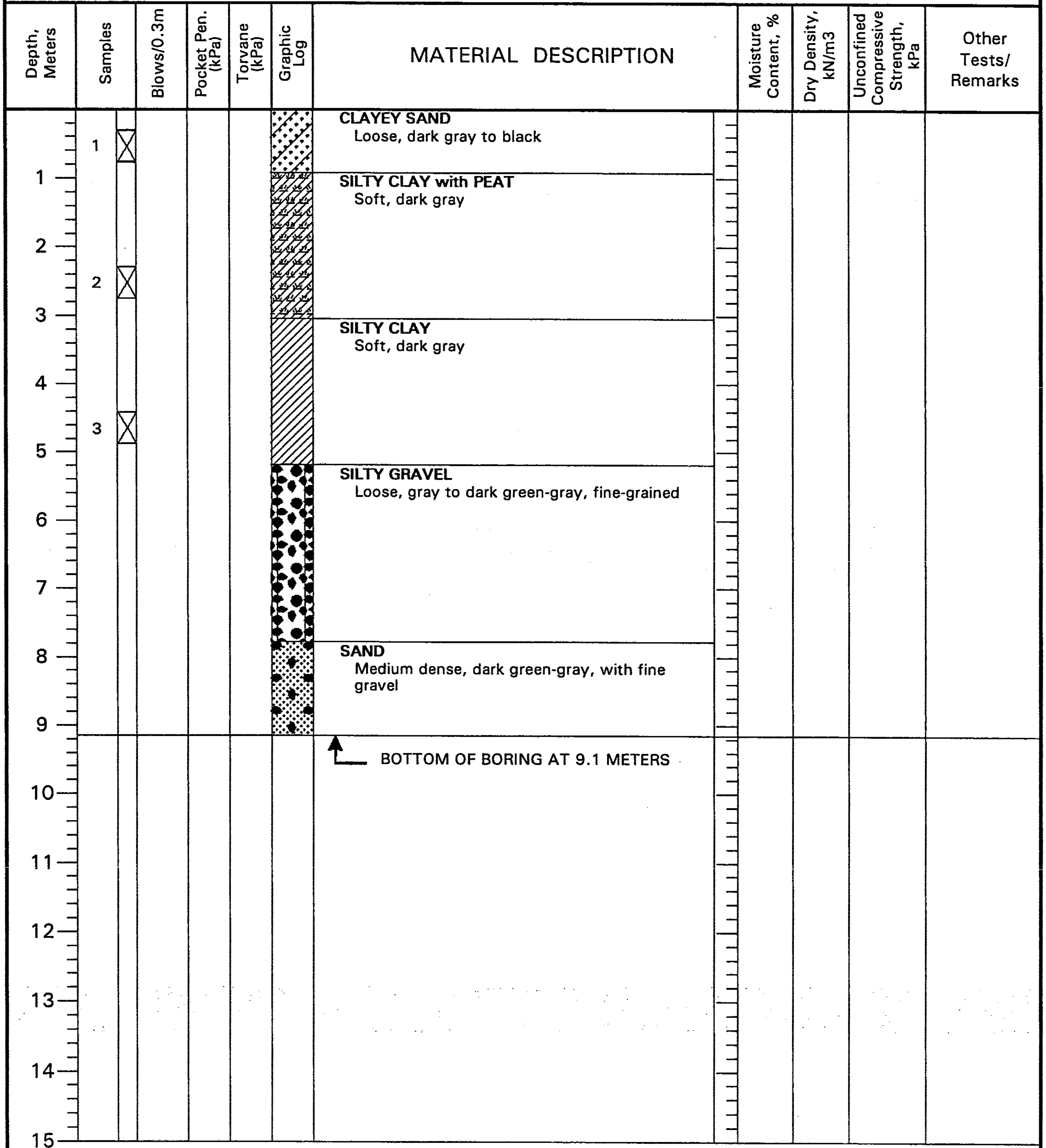
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-16

Date Drilled: 11/19/60
Type of Boring: 76 mm Wash
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 0.6 meters (approx.)



CLAYEY SAND
Loose, dark gray to black

SILTY CLAY with PEAT
Soft, dark gray

SILTY CLAY
Soft, dark gray

SILTY GRAVEL
Loose, gray to dark green-gray, fine-grained

SAND
Medium dense, dark green-gray, with fine gravel

BOTTOM OF BORING AT 9.1 METERS

Station: 8+377 (meters)

Offset: -12 (meters:positive=east)

(602680.15/1870213.26)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-17

Date Drilled: 10/19/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 0.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SANDY CLAY Loose, brown				
						SANDY SILTY CLAY Stiff, gray-brown				
1										
	1	3					20	16.3	63	
						Gravelly				
2										
	2	13					27	15.6	196	
3										
						CLAYEY SILTY SAND Medium dense to dense, brown, with gravel				
4	3	38								
5						Gravelly **SANDY SILTY CLAY** Stiff, gray-brown				
	4	11					28	15.4	59	
6										
7	5	9					30	14.5	149	
8						**SILTY SAND** Medium dense, gray-brown, fine-grained				
9	6	15					29	15.9		
						BOTTOM OF BORING AT 9.3 METERS				
10										
11										
12										
13										
14										
15										

Station: 8+061 (meters) Offset: -53 (meters:positive=east) (602951.15/1870022.43)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

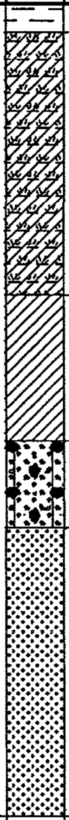
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-18

Date Drilled: 11/8/60
Type of Boring: 76 mm Wash
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: -1.5 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1				**ORGANIC SILT** Loose, black				
	2				**SILTY CLAY with PEAT** Soft, dark gray	92	7.4	41	
	3				**SILTY CLAY** Very soft, dark gray	90	8.5	18	
	4	12			**SILTY SAND** Loose, dark green-gray, with fine gravel				
					SAND Medium dense, dark green-gray				
					BOTTOM OF BORING AT 8.5 METERS				

Depth scale: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 7+959 (meters)　Offset: 50 (meters:positive=east)　(603075.88/1870099.66)

Project: 95-973017NB.00　**URS Greiner Woodward Clyde**　Sheet 1 of 1　Fig.

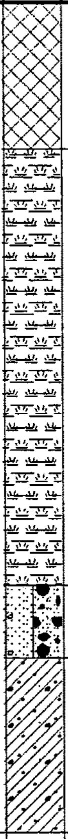
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-19

Date Drilled: 10/21/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 1.2 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						MISCELLANEOUS FILL Very loose				
1						▽ FILL **SILTY CLAY and PEAT** Soft, gray				
2	1	2					52	10.8	42	
3										
4	2	1					77	8.6		
5	3	8				Firm	52	10.7	18	
6						**SAND and GRAVEL** Medium dense, gray, medium-grained sand				
7	4	17				**SANDY SILTY CLAY** Very stiff, green-gray	28	15.7	188	
8	5	12				BOTTOM OF BORING AT 8.7 METERS	24	16.0	137	
9										
10										
11										
12										
13										
14										
15										

Station: 7+742 (meters) Offset: -45 (meters:positive=east) (603215.28/1869911.23)

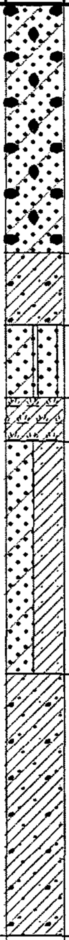
Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-2

Date Drilled: 10/17/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 7.0 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						CLAYEY SAND Loose, dry, brown, with some gravel				
1										
2										
3						**SANDY SILTY CLAY** Soft, wet, brown				
						SILTY CLAYEY SAND Loose, dark gray				
4						**SILTY CLAY** Soft, black, peaty, with shell fragments				
5						**SILTY CLAY to SANDY CLAY** Stiff to firm, dark gray				
6										
7						**SANDY SILTY CLAY** Stiff, gray brown				
8						Firm				
						Soft				
9										
10						BOTTOM OF BORING AT 9.8 METERS				
11										
12										
13										
14										
15										

Station: 11+526 (meters)
Offset: -33 (meters:positive=east)
(600661.16/1872305.23)

Project: 95-973017NB.00
URS Greiner Woodward Clyde
Sheet 1 of 1
Fig.

7/1/99 GUADM GUADM

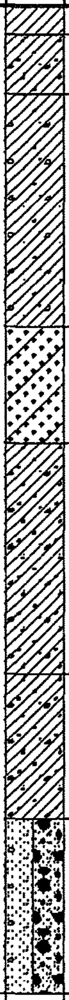
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-20

Date Drilled: 10/20/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 1.0 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY Firm, damp, brown				
1						**SANDY SILTY CLAY** Stiff, damp, dark gray				
2						**SILTY SANDY CLAY** ⊻ Very stiff, gray-brown				
3 4						**CLAYEY SAND** Loose to medium dense, brown, medium-grained				
5 6						**SANDY SILTY CLAY** Stiff, gray-brown				
7 8						**SANDY SILTY CLAY** Firm, green-gray				
9 10						**SAND and GRAVEL** Medium dense to dense, gray, medium-grained				
11 12 13 14 15						BOTTOM OF BORING AT 10.4 METERS				

Station: 7+650 (meters) Offset: 57 (meters:positive=east) (603352.16/1869902.04)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-21

Date Drilled: 10/21/60

Type of Boring: 152 mm Auger

Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 2.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						MISCELLANEOUS FILL Very loose ▽ FILL				
	1	17				**SILTY SANDY CLAY** Very stiff, gray-brown	21	17.0	273	
						CLAYEY SAND Loose, brown, medium grained				
	2	7				**SANDY CLAY** Firm, gray	22	16.8		
						CLAYEY SAND Medium dense, brown, medium-grained				
	3	11				**SILTY CLAY** Stiff, gray-brown Soft to firm	29	14.8	167	
	4	11				**SILTY CLAY** Stiff, blue-gray	33	14.0	78	
						BOTTOM OF BORING AT 10.8 METERS				

Station: 7+362 (meters)   Offset: 27 (meters:positive=east)   (603415.17/1869603.81)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-22

Date Drilled: 10/4/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 1.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					CLAY Stiff, moist				
1	1	3			**SILTY CLAY with PEAT** Very soft to soft, damp, black, with shells	62	9.6		
2	2	5			**SILTY SAND** Loose, blue				
3					**SILTY CLAY with PEAT layers** Soft, gray	94	7.2	24	
5	3	6				81			
7	4	25							
8					**CLAY** Very stiff, green-brown	24	16.2	265	
9					**SILTY CLAY** Stiff, brown				
10	5	2			**SILTY SAND** Medium dense, (quick) brown	22	15.7	27	
11					BOTTOM OF BORING AT 10.4 METERS				
12									
13									
14									
15									

Station: 6+550 (meters) Offset: -72 (meters:positive=east) (603773.24/1868959.13)

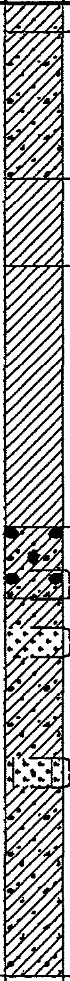
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-3

Date Drilled: 10/17/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 5.6 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SANDY CLAY Loose, cultivated				
1	1	4				**SANDY SILTY CLAY** Stiff, damp, brown Firm	22	14.3	104	
2	2	7				**SILTY CLAY** Very stiff, damp, dark brown	27	15.1	271	
3						**SILTY CLAY** Stiff, gray-brown ∇				
4	3	10					21	17.0	143	
5	4	10					26	15.6	63	
6						**SANDY CLAY** Stiff, tan, with gravel Soft				
7						**SANDY SILTY CLAY** Stiff, gray-brown Loose, Clayey Sand				
8	5	22				Loose, Silty Sand	26	15.6	104	
9										
10	6	9					24	15.9	63	
11						BOTTOM OF BORING AT 10.2 METERS				
12										
13										
14										
15										

Station: 11+385 (meters)   Offset: -40 (meters:positive=east)   (600801.34/1872333.20)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

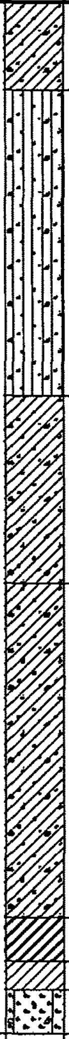
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-4

Date Drilled: 10/24/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 6.0 meters (approx.)



Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	5			**SANDY CLAY** Firm, damp, gray-brown, fine-grained sand	22	15.2	90	
2	1			**SANDY SILT** Loose, gray-brown, fine-grained	33	13.4	33	
				∇				
3	6							
4	3			**SILTY CLAY** Soft to firm, dark gray, with sand lenses	34	12.6		
5	8				27	15.2	110	
6	6			**SANDY CLAY** Firm, dark gray, fine-grained				
				CLAY Stiff, dark gray				
				SILTY CLAY Stiff, gray-brown				
7	12			**FINE SILTY SAND** Loose to medium dense, gray-brown				
				BOTTOM OF BORING AT 10.8 METERS				

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 10+950 (meters) Offset: -31 (meters:positive=east) (600937.47/1872040.92)

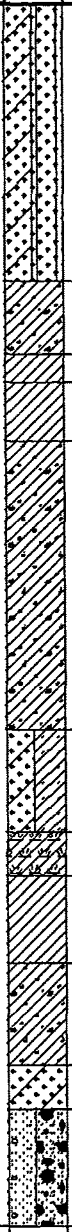
Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-5

Date Drilled: 10/13/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 5.2 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1 2						**CLAYEY SILTY SAND** Very loose, damp to wet, brown ∇				
3						**SANDY CLAY** Soft to firm, dark gray				
4						**SILTY CLAY** Stiff, dark gray				
						SILTY CLAY Stiff, gray-green				
5 6 7						**SILTY CLAY** Stiff, brown, with Sandy Silty Clay layers				
8						**SANDY CLAY to SILTY CLAY** Stiff, gray-brown				
9						**CLAY and PEAT** Soft, dark gray				
10						**SILTY CLAY** Soft to firm, dark gray				
11						**SANDY SILTY CLAY** Stiff, dark gray				
						CLAYEY SAND Loose, dark gray				
12						**SAND and GRAVEL** Medium dense, dark gray				
13 14 15						BOTTOM OF BORING AT 12.8 METERS				

Station: 10+693 (meters) Offset: -45 (meters:positive=east) (601036.00/1871785.31)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-6

Date Drilled: 10/13/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 5.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SANDY CLAY Loose, cultivated				
						SILTY CLAYEY SAND Stiff, damp, brown				
	1	4				**SILTY CLAYEY SAND** Loose, moist, brown	19	14.5	63	
	2	4				**SANDY SILTY CLAY** Firm, brown to dark gray ∇	37	13.4		
	3	2					38	14.0	12	
	4	8					48	11.2	71	
	5	10				**CLAY with PEAT** Stiff, dark gray	27	15.1	90	
						SILTY CLAY Stiff, green-brown				
	6	8				**CLAYEY SILTY SAND** Loose, brown	25	15.9	45	
						SANDY SILTY CLAY Stiff, brown				
	7	22				**SILTY CLAY** Very stiff, brown	19	17.3	60	
						BOTTOM OF BORING AT 11.7 METERS				

Station: 10+187 (meters) Offset: -73 (meters:positive=east) (601382.15/1871390.83)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-7

Date Drilled: 10/20/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 4.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY Firm, damp, brown				
	1	7					8	13.8	137	
1						**SANDY CLAY** Firm, moist, brown				
2										
	2	4					33	14.0		
						SANDY CLAY to SILTY CLAY ∇ Soft to firm, blue-gray, fine-grained, with organic material				
3										
	3	5								
4										
	4	7					37	12.6	54	
5										
6	5	7					39	12.3	51	
						SILTY CLAY and PEAT Firm, blue-gray				
7										
	6	8					93	6.8	48	
8										
9						**SANDY SILTY CLAY** Firm, dark gray				
						SANDY SILTY CLAY Stiff, tan-gray				
10										
	7	21					18	17.6	463	
11						BOTTOM OF BORING AT 10.8 METERS				
12										
13										
14										
15										

Station: 10+021 (meters) Offset: -52 (meters:positive=east) (601534.24/1871328.00)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-8

Date Drilled: 10/13/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960
Surface Elevation: 4.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Layers of loose, brown CLAYEY SILTY SAND and firm, brown SANDY SILTY CLAY				
	1	5					26	14.0	104	
	2	4					35	13.4	33	
						SILTY SAND Loose, dark gray, with some clay				
	3	4								
	4	7								
						SILTY CLAY Firm, dark gray				
						SAND and GRAVEL Medium dense, dark gray				
	5	22					23	16.2	27	
						BOTTOM OF BORING AT 11.3 METERS				

Station: 9+773 (meters) Offset: 45 (meters:positive=east) (601777.02/1871225.71)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

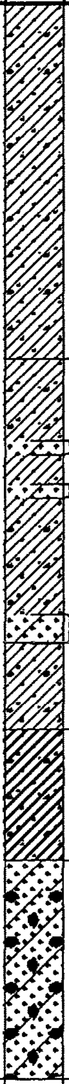
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GRIV-9

Date Drilled: 10/18/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N

Remarks: From 4246 - GUADALUPE RIVER IMPROVEMENTS - c.1960

Surface Elevation: 3.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						**SANDY SILTY CLAY** Soft, dry, brown				
						Stiff				
1										
						Hard				
2						Stiff				
3										
						▽				
						SANDY SILTY CLAY Stiff, gray-brown				
4										
						Loose Clayey Sand				
5										
						Loose Clayey Sand				
6										
						Loose Clayey Sand				
7						**SANDY SILTY CLAY** Stiff, dark brown				
8						**SANDY CLAY** Stiff, dark gray-brown				
9						**CLAYEY SAND** Loose, gray-brown, gravelly below 30-1/2 feet				
10										
11										
						BOTTOM OF BORING AT 11.3 METERS				
12										
13										
14										
15										

Station: 9+545 (meters)   Offset: -49 (meters:positive=east)   (601813.69/1870982.80)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GROCS-1

Date Drilled: 4/26/83

Type of Boring: 152 mm Continuous Flight Auger

Hammer/drop: 623 N

Remarks: From 109-12, PA 11516 - GEOTECH. INVEST. GUAD. RIV. OUTFALL CONTROL STRUCTURE - John V. Lowney & Associates (06/83)

Surface Elevation: 2.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						COBBLES - Over gravel base Coarse type material				
		10				**SILTY CLAY (CL) with sand** Stiff, brown	16			
1										
		7					20			
2										
		7		72		**SILTY CLAY (CH) Bay Mud** Firm, gray	27			
3										
						Very soft				
4										
		2		34		∇	43			
5										
		6		96		**SILTY CLAY (CL)** Firm, mottled brown	30			
6										
						Tan				
7										
		7		62			23			
8										
						Mottled tan				
		6		72			25			
9										
						Stiff				
10										
		9		72			33			
11										
						SILTY SAND (SM) Loose, gray, fine grained				
		9					25			
12										
13										
		10					27			
14										
15										

Station: 7+207 (meters) Offset: 62 (meters:positive=east) (603480.24/1869458.58)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GROCS-1

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	|	9			⁘	Well-graded, mixed grays	15			
						BOTTOM OF BORING AT 15.2 METERS				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-1

Date Drilled: 10/5/84

Type of Boring: 152 mm Continuous Flight Auger

Hammer/drop: 623 N/760 mm

Remarks: From 16338V - GOLD STREET BRIDGE

Surface Elevation: 1.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	22			▨	**SILTY CLAY (CL) FILL** Moderately compacted, damp, light brown to dark brown	21	16.2	216	
1	2	33			●	**GRAVELLY CLAY (CL-GC) FILL** Moderately compacted, moist, brown, with brick fragments, pieces of tin can at 1.2 meters FILL	11	18.4	271	
2					▨	**SILTY CLAY (CH)** Stiff, moist, dark gray (BAY MUD)				
3					▨	**SILTY CLAY (CL)** Very stiff, moist, gray and brown mottled				
4										
5						BOTTOM OF BORING AT 4.6 METERS				
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 7+108 (meters)

Offset: 117 (meters:positive=east)

(603553.35/1869371.53)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

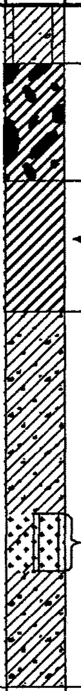
Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-2

Date Drilled: 10/5/84
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 0.9 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	5			**CLAYEY SILT (CL-ML) FILL** Poorly compacted, damp, brown with some sand and gravel				
1	2	2			**SILTY CLAY (CL) and REFUSE FILL** Uncompacted, moist, brown, containing rusty metal, glass and organic material FILL	22	9.7	15	
2	3	5			**SILTY CLAY (CH)** Soft, moist to wet, dark gray	33	13.2	37	
3	4	9			Medium (BAY MUD) 15 min	33	13.5	63	
					SANDY CLAY (CL) Stiff, brown and gray mottled				
4	5	24				18	17.7	157	
5					Increasing sand content				
6	6	10			Clayey sand (SC-SM)				
7					BOTTOM OF BORING AT 7.2 METERS				
8									
9									
10									
11									
12									
13									
14									
15									

Station: 7+086 (meters) Offset: 96 (meters:positive=east) (603536.56/1869346.19)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

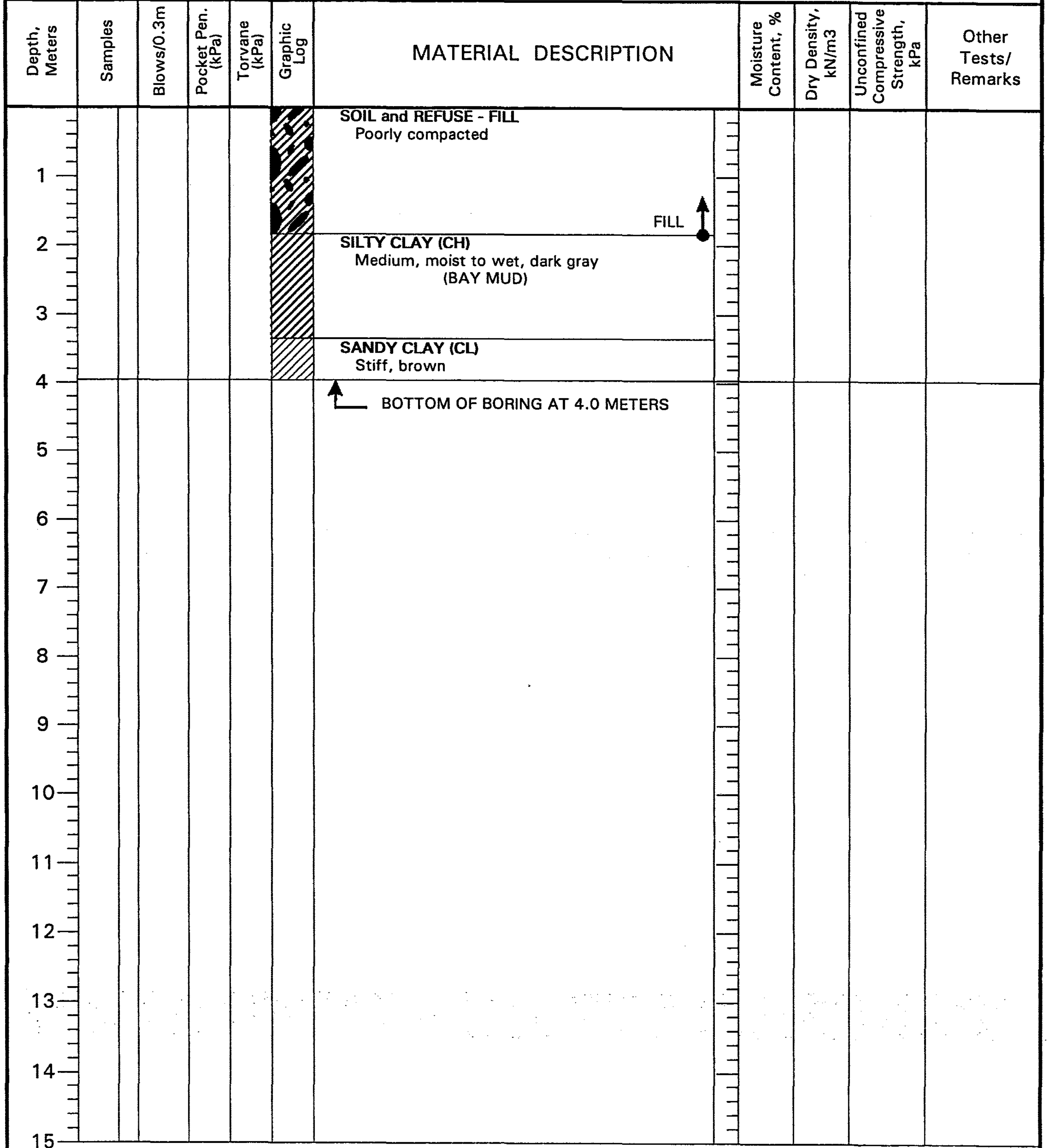
Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-2A

Date Drilled: 10/5/84
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 0.9 meters (approx.)



SOIL and REFUSE - FILL
Poorly compacted

SILTY CLAY (CH)
Medium, moist to wet, dark gray
(BAY MUD)

SANDY CLAY (CL)
Stiff, brown

BOTTOM OF BORING AT 4.0 METERS

Station: 7+085 (meters)
Offset: 106 (meters:positive=east)
(603547.21/1869346.97)

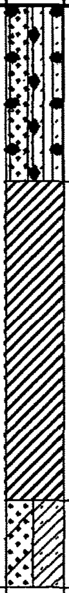
Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-2B

Date Drilled: 10/5/84
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm
Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 1.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
0						**SILTY SAND (SM-ML) FILL** Moderately compacted, moist, brown, with some gravel FILL				
1.9						**SILTY CLAY (CH)** Medium, moist, dark gray (BAY MUD)				
5.2						**CLAYEY SAND (SC-CL)** Medium, dense, brown and gray mottled				
6.1						BOTTOM OF BORING AT 6.1 METERS				



Depth scale: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Station: 7+089 (meters)
Offset: 81 (meters:positive=east)
(603522.22/1869346.00)

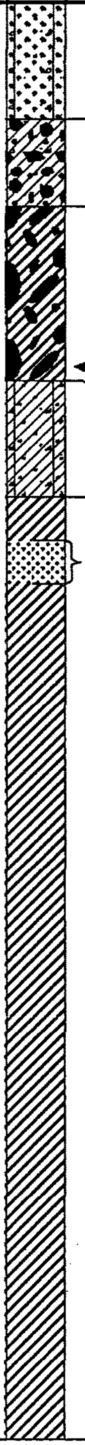
Project: 95-973017NB.00
URS Greiner Woodward Clyde
Sheet 1 of 1
Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-3

Date Drilled: 10/5/84
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm
Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 3.4 meters (approx.)

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



MATERIAL DESCRIPTION

SILTY SAND (SM) FILL
Moderately compacted, damp, brown and gray, with scattered coarse gravel to 76 mm

GRAVELLY CLAY (CL) FILL
Moderately compacted, moist, dark brown with traces of refuse (plastic, metal)

SILTY CLAY (CL-CH) and REFUSE FILL
Poorly compacted, dark gray, (consisting of a mixture of Bay Mud, wood, glass, plastic and cloth) ∇

FILL

Concentrated organic material

SANDY CLAY (CL-ML)
Stiff, dark brown-gray, with traces of organic material

SILTY CLAY (CH)
Soft, dark gray to black

Sand lens

With high organic material content

(BAY MUD)

With traces of organic material

Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	20			13	18.4	252	
2	10			36	12.1	55	
3	7			30	13.0	51	
4	14			22	16.5	137	
5	3			40	11.9	23	
6	4			91	7.4	40	
7	4			77	8.3	42	
8	7			70	8.8	38	
9	6			46	11.6	40	

Station: 7+115 (meters)   Offset: 59 (meters:positive=east)   (603494.86/1869367.28)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT | **Log of Boring: GSB-3** (continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						BOTTOM OF BORING AT 15.2 METERS				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-4

Date Drilled: 10/5/84
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 3.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	24				**GRAVELLY CLAY (CL) FILL** Moderately to well compacted, damp, brown, with coarse gravel to 51 mm diameter	8	17.7	536	
1	2	17				Moderately compacted	11	16.2	138	
2						**SILTY CLAY (CL-CH) FILL** Moderately compacted, moist, dark brown mottled				
3	3	20				▽	21	16.5	214	
4	4	9				**SOIL and REFUSE FILL** Poorly compacted to uncompacted, containing wood, plastic, glass and organic material FILL ↑				
5						**SILTY CLAY (CH)** Stiff, dark brown-gray, with traces of organic material				
6	5	16					28	15.2	137	
7						**SANDY CLAY (CL)** Very stiff, brown, with some fine gravel				
8	6	28					19	17.0	215	
9	7	10				Increasing sand content (CL-SC)	25	15.9	220	
10 11 12 13 14 15						BOTTOM OF BORING AT 9.1 METERS				

Station: 7+111 (meters)   Offset: -41 (meters:positive=east)   (603398.18/1869343.85)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSB-5

Date Drilled: 10/5/84
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16338V - GOLD STREET BRIDGE
Surface Elevation: 3.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY SAND (SM) FILL Poorly compacted, damp, red-brown				
	1	27				**GRAVELLY CLAY (CL) FILL** Moderately to well compacted, moist, dark brown	22	16.8	497	
1										
	2	24				**SILTY CLAY (CL) FILL** Moderately compacted, moist, brown, with wood fragments FILL	12	18.2	196	
2										
						SILTY CLAY (CH) Stiff, moist, dark gray with some light gray zones				
3										
4										
	3	15								
5						BOTTOM OF BORING AT 5.0 METERS				
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 7+136 (meters)

Offset: -65 (meters:positive=east)

(603369.76/1869364.31)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

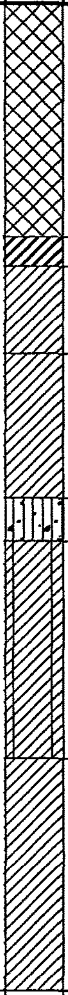
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-1

Date Drilled: 11/1/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 2.4 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						MISCELLANEOUS FILL Loose to medium dense				
1										
2						FILL				
						SILTY CLAY Soft, black, organic				
3						**SILTY CLAY** Firm, dark brown				
4	1	10				**SILTY CLAY** Stiff to very stiff, yellow brown, with lime nodules	22	16.7	232	
5										
	2	11				**SANDY SILT** Loose, brown	26	15.6	66	
6						**SILTY CLAY to CLAYEY SILT** Very stiff, yellow brown Firm				
7	4	6					28	14.9	29	
8						**SILTY CLAY** Stiff, brown				
9										
10	5	8					32	14.0	161	
						BOTTOM OF BORING AT 10.4 METERS				
11										
12										
13										
14										
15										

Station: 7+110 (meters)
Offset: -300 (meters:positive=east)
(603143.94/1869292.86)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

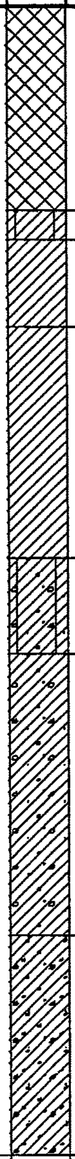
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-2

Date Drilled: 11/1/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 2.3 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						MISCELLANEOUS FILL Loose FILL				
						CLAYEY SILT Soft, black, organic				
						SILTY CLAY Soft, dark gray				
4	1	8				**SILTY CLAY** Stiff, gray-brown	24	15.7	176	
	2	12					24			
6	3	8				**CLAYEY SILT to SANDY SILT** Loose to medium dense, brown	29	14.9	71	
	4	8				**SILTY CLAY** Stiff, gray-brown, with some sand	33	14.0	122	
12	5	15				**SANDY SILTY CLAY** Firm to stiff, dark gray	31	14.3	149	

BOTTOM OF BORING AT 12.0 METERS

Station: 7+119 (meters)   Offset: -108 (meters:positive=east)   (603330.47/1869339.30)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

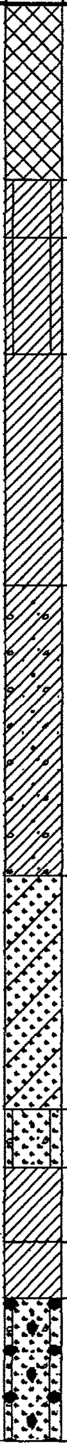
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-3

Date Drilled: 11/1/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 0.9 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
0					**MISCELLANEOUS FILL** Loose FILL				
2					**CLAYEY SILT** Loose, black, organic				
3	1	2			**SILTY CLAY to CLAYEY SILT** Soft, dark gray	40	12.7	48	
4					**SILTY CLAY** Firm, gray-brown				
6	2	5							
7					**SILTY CLAY** Soft to firm, dark gray, with layers of Sandy Silty Clay and Clayey Sand				
9	3	5			**CLAYEY SAND** Loose, dark gray	39	12.7	45	
11					Medium dense				
12	4	8			**SILTY SAND** Loose, dark gray	19	17.0		
13					**CLAY** Firm to stiff, dark gray				
13					**SILTY CLAY** Stiff, green-brown				
14					**SILTY SAND** Medium dense to dense, gray-brown, with fine gravel				
15	5	35				10	20.4		

Station: 7+122 (meters) Offset: -49 (meters:positive=east) (603387.37/1869353.63)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GSBOLD-3

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
16					▨					
17					▨					
						BOTTOM OF BORING AT 17.4 METERS				
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-4

Date Drilled: 11/1/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 2.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						MISCELLANEOUS FILL Loose				
1										
2						FILL				
3						**SILTY CLAY** Soft, black, with peat				
4	1	1				**SILTY CLAY** Very soft, gray-brown, with peat	40	17.6	18	
5	2	1					103	6.8	21	
6										
7	3	2					86	7.7	21	
8										
9										
10						**GRAVELLY CLAY** Loose to medium dense, gray-green **SILTY CLAY** Soft to firm, dark gray				
11	4	6				**SILTY CLAY** Firm to stiff, gray-green	45	11.9	39	
12						**SILTY SAND** Loose to medium dense, gray-green				
13	5	12					21	16.3		
14										
15										

Station: 7+112 (meters)

Offset: 11 (meters:positive=east)

(603449.09/1869354.95)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: GSBOLD-4

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨					
16						BOTTOM OF BORING AT 15.9 METERS				
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 2 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-5

Date Drilled: 11/1/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 2.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						MISCELLANEOUS FILL Loose to medium dense				
1	1 ☒	30					24			
						FILL ↑				
2						**SILTY CLAY** Firm, dark gray				
	2 ☒	4								
4	3 ☒	9					29	14.6	149	
						SILTY CLAY Stiff, gray-brown				
5						**SANDY CLAY** Stiff, gray-brown				
	4 ☒	8								
						CLAYEY SAND Loose to medium dense, gray-brown				
6						**SILTY CLAY** Firm, gray-brown				
7	5 ☒	5					28	14.8	59	
8						Stiff				
	6 ☒	12					33	14.0	196	
9						**SAND** Medium dense, gray-brown, fine grained				
10	7 ☒	16					24	15.4		
						BOTTOM OF BORING AT 10.4 METERS				
11										
12										
13										
14										
15										

Station: 7+074 (meters)   Offset: 209 (meters:positive = east)   (603650.50/1869356.63)

Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

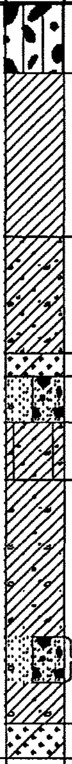
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GSBOLD-6

Date Drilled: 11/1/60
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From WCC - Gold Street Bridge (c.1960) original report - reprinted 6/64 - Exact drilling date unknown (11/60)

Surface Elevation: 0.6 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					CLAYEY SILT and ROCK FRAGMENTS - FILL Dense, damp to moist FILL				
1	1	9			**SILTY CLAY** Stiff, dark gray	29	14.3	120	
2					Very stiff				
	2	11			**SANDY CLAY** Stiff, gray-brown	21	16.8	152	
3									
4					**CLAYEY SAND** Loose, tan				
	3	14			**SAND and GRAVEL** Dense, gray	18	17.6		
5					**SILTY SANDY CLAY** Stiff, tan				
	4	13			**SILTY CLAY** Stiff, gray-tan, with some sand	31	14.3	146	
6									
7					SAND and GRAVEL Lens				
8	5	7			**CLAYEY SAND** Medium dense, gray-brown, fine grained	25	16.0	78	
					BOTTOM OF BORING AT 7.9 METERS				
9									
10									
11									
12									
13									
14									
15									

Station: 7+085 (meters)   Offset: 344 (meters:positive=east)   (603780.51/1869393.50)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: GTPP-B13

Date Drilled: 12/14/95
Type of Boring: 203 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 953009NE - GOLDEN TRIANGLE PIPELINE, Parikh Consultants, Inc.

Surface Elevation: 7.9 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						406 mm Asphalt over 152 mm Aggregate Base				
						CLAYEY SAND (SC) WITH GRAVEL - FILL Loose to medium dense, moist, brown				
1	1	25					13	18.1		
2	2	14					15	17.9	78	+#4=15% -#200=29%
	3	16					17	17.1	91	
5	4	29				Medium dense, moist, dark brown	15	17.6	192	
						FILL				
						LEAN CLAY (CL) Hard, moist, black				
	5	29					17	14.9		PP>430kPa
8	6	12				Stiff	24	14.8		PP=120kPa
						12/21/95 ▼ First Well Reading				
						CLAYEY SAND (SC) Loose, wet, light brown				
	7	10					23	15.9	50	-#200=45%
						LEAN CLAY (CL) Stiff, wet, brown				
11	8	10					32	14.0	99	PP=165kPa
						BOTTOM OF BORING AT 11.1 METERS				

Station: 9+224 (meters)   Offset: 94 (meters:positive=east)   (602072.58/1870775.10)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-1

Date Drilled: 1/2/92
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES
Surface Elevation: 3.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	19	430			**SILTY CLAY (CL) FILL** Moderately compacted, moist, dark brown, with some fine roots	18	16.5	323	
1						FILL				
						SILTY CLAY (CH) Stiff, moist, gray brown				
		1380								
2	2		95-145				24	15.7	80	
		1725 kPa					23	16.2		LL=58 PI=37
						SILTY CLAY (CL) Stiff, moist, light brown				
3										
	3	21	240				22	16.0	147	
4										
						Sand lens				
5	4	1450 kPa	90-165				20	15.9	23	
						Very soft, moist, light brown, some fine sand	32	14.0		LL=37 PI=13
6										
	5	15	75-120			**SILTY CLAY (CL)** Soft, moist, brown with dark brown mottling, trace fine to medium sand	24	16.0	26	
7										
8	6	24				**CLAYEY SAND (SC)** Medium dense, brown, trace fine gravel	18	17.9		
9						**SILTY CLAY (CL)** Soft, moist, light brown, trace fine to coarse sand				
	7	17	145				30	14.6	43	
10										
11	8	1550 kPa	40-215			**SILTY CLAY (CL)** Very soft, gray brown, some sand	25	16.0	18	
							20	17.0		LL=30 PI=13
12										
	9	26				**SILTY SAND (SM)** Medium dense, brown, trace fine gravel	17	17.9		
13						**SANDY CLAY (CL)** Medium, moist, yellowish brown mottled orange, gray and brown				
14	10	15	45-75				25	15.7	54	
15										

Station: 10+131 (meters)
Offset: 52 (meters:positive=east)
(601492.63/1871473.03)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-1

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	72				**SILTY SAND (SM)** Very dense, brown, with multi-colored gravel up to 13 mm	17	17.6		
16						**SILTY CLAY (CL)** Stiff, moist, gray brown with gray mottles				
17	12	24	145-190				24	16.0	102	
18										
	13	22	95			Medium	28	14.9	74	
19										
20	14	56	405-430			More plastic (CL-CH); very stiff	22	16.7	298	
21										
	15	24	145-190				29	14.8	225	
22										
23	16	44	145-190				23	16.5	242	
24										
	17	22	265-285			Less plastic (CL); medium	23	16.5	67	
25										
26	18	21	240-285			Stiff	23	16.3	192	
27										
	19	34	265			**CLAYEY SILT (ML)** Stiff, moist, dark grayish brown with light tan mottling	24	16.0	139	
28										
						SILTY CLAY (CL) Stiff, moist, gray mottled gray and brown				
29	20	51	145				26	15.4	181	
30										
						Very stiff				
	21	81	335-430				25	15.9	275	
31						BOTTOM OF BORING AT 30.9 METERS				

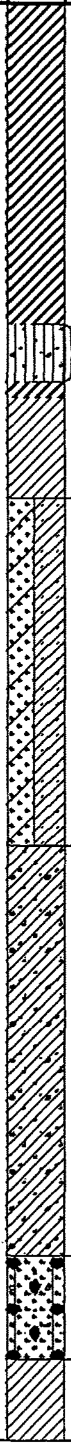
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-2

Date Drilled: 1/8/92
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES

Surface Elevation: 1.4 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					Sampling not attempted at 0.3 meters foot due to disturbance of soft soil surface with tracks of drill rig				
1									
2	1	WOR ***			**SILTY CLAY (CH)** Very soft, wet, gray	38	18.4	2	
	2	WOR ***							
3	3		40		Su=5kPa	42	16.8		
	4	2			FINE SANDY SILT (ML) Soft, moist, orange brown mottled light brown	23	16.2	34	
4	5	9			**SILTY CLAY (CL)**				
	6	9	95		Soft, brown mottled gray and brown, trace fine sand	23	16.2	30	
5	7	42							
	8	13			**SANDY CLAY (CL-SC)** Medium, moist, brown mottled gray and brown, trace fine gravel				
6	9	10 2410	120			22	16.8	50	
	10	2070 kPa	45-75		Su=38kPa	22	16.5		
7									
	11	15	190-215			27	15.2	113	
8	12	23			Stiff				
	13	21							
9	14	11	95		**SANDY CLAY (CL)** Medium, brown with gray mottles, trace fine gravel	26	15.7	74	
10									
					Soft				
11	15	11				27	15.7	34	
12					Very soft to soft				
	16	12				27	15.2	24	
13					**SILTY SAND (SM)** Very dense, grayish brown, some gravel				
14	17	50				13			+#4=20% -#200=15%
					SILTY CLAY (CL) Medium, moist, olive brown with gray and rust mottling				
15									

Station: 10+144 (meters) Offset: 1 (meters:positive=east) (601458.66/1871433.03)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-2

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	18	12	120-145		▨		24	16.0	54	
16					▨					
17	19	42	215		▨	More plastic (CL-CH), stiff	32	14.3	147	
18					▨	Very stiff				
	20	50/ 125 mm	430		▨		26	15.6	266	
19						BOTTOM OF BORING AT 18.8 METERS *** WOR - Weight of rods pushed sampler Su - Shear strength from unconsolidated undrained triaxial test				
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-3

Date Drilled: 1/2/92

Type of Boring: 124 mm Rotary Wash

Hammer/drop: 623 N/760 mm

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES

Surface Elevation: 1.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	1				**SILTY CLAY (CH)** Very soft, gray brown, many roots and weeds				
1	2	15	285-385			**SANDY CLAY (CL)** Stiff, dark brown, moist, trace roots	20	16.7	171	
	3	10	70-145			**SILTY CLAY (CH)** Soft, dark gray, wet, slight organic odor, many roots				
2	4	8								
	5	3								
3	6	2	30			SANDY SILT (SM-ML) Soft, black, slight organic odor	35	13.5	43	
	7	5								
4	8	8								
	9	8				Decayed root matter present	37	13.0	63	
5	10	7								
	11	5								
6	12	7	45-75				70	8.6	39	
	13	5								
	14	6								
7	15	11								
	16	10	40				41	12.4	47	
8	17	10								
	18	9	75			**CLAYEY SAND (CL-SC)** Loose, moist, dark gray				
9	19	9					28	14.6	25	
10										
11	20	15	95-120			**SANDY CLAY (CL)** Medium, moist, olive brown, some fine to coarse gravel	24	15.9	68	
12										
	21	39				**CLAYEY FINE TO COARSE SAND (SC)** Dense, moist, brown, some gravel up to 6 mm	15	18.5		
13						**CLAYEY GRAVELLY SAND (SC-SW)** Very dense, moist, brown mottled gray				
14	22	50/ 127 mm								+#4=32% -#200=8%
15										

Station: 10+130 (meters) Offset: -31 (meters:positive=east) (601456.48/1871397.98)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 2 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-3

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	23	26	165-265		▨	**CLAYEY SAND (SC)** Medium dense, moist, light orange brown	21	16.7	83	
16					▨					
					▨	Dense				
17	24	46			▨					+#4=33% -#200=14%
					▨	**SILTY CLAY (CL)** Very stiff, moist to dry, olive gray and light gray brown mottled				
18					▨					
	25	51	360-405		▨		24	16.2	277	
						BOTTOM OF BORING AT 18.8 METERS				
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-4

Date Drilled: 1/3/92
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES
Surface Elevation: 5.9 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	30				**SILTY CLAY (CL) FILL** Moderately compacted, moist, brown, some sand	14	15.6		
1										
2	2	1380 kPa					17	15.4	74	
3						Some fluid loss				
	3	2070 kPa								
						Gray brown LEVEE FILL				
4						**SANDY TO SILTY CLAY (CL)** Medium, very moist, dark gray brown				
5	4	5	190-240				22	15.7	77	
	5	4								
	6	4								
6	7	4	45-75			**SILTY CLAY (CL)** Soft, dark gray, slight organic odor, trace large decomposed root	31	13.8	34	
	8	2								
7	9	8								
8	10	690 kPa	45-75				35	13.5	34	LL=32 PI=8
	11	5				**SANDY CLAY (CL)** Soft, dark gray, trace decomposed roots, moist to wet, thin lenses of Silty Sand	33	13.8		
9	12	4	45				35	13.0	38	
	13	5								
10	14	4				**SILTY CLAY (CL-CH)** Medium stiff, moist, dark gray, trace fine sand				
11	15	690 kPa	40				28	14.9	86	LL=49 PI=26
	16	9								
	17	5								
12	18	12	145-165			Stiff	28	15.1	106	
13										
14	19	43	430			Very stiff, dry to moist, mottled tan and light gray, trace sand	21	16.5	266	
15										

Station: 10+128 (meters) Offset: -52 (meters:positive=east) (601448.78/1871378.46)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-4

(continued)

Depth, Meters	Samples		Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	20	▨	18	75- 120			**SANDY CLAY (CL)** Medium, moist, brown mottled gray	21	16.8	56	
16											
							GRAVELLY SAND (SW-SM) Very dense, brown with dark gray to black gravel				
17	21	◫	60								
18											
	22	◫	66					22			+#4=17% -#200=6%
19											
							SILTY SAND (SM) Very dense, gray brown, trace fine to coarse gravel				
20	23	◫	58								
21											
	24	◫	70								
22							**SILTY CLAY (CL)** Stiff, moist, brown gray with brown mottling, trace medium to coarse sand				
23	25	▨	43	285- 335				21	17.0	184	
24											
	26	▨	39	240- 285				26	15.4	147	
25											
							SANDY CLAY (CL) Medium, brown mottled grayish brown, occasional lenses of Silty Sand				
26	27	▨	23	145- 190				20	17.1	70	
							SILTY CLAY (CL) Stiff, moist, grayish brown mottled gray				
27											
	28	▨	33	145- 190				23	16.5	121	
28											
29	29	▨	31	95- 145				27	15.4	100	
30							↓ Medium				
	30	▨	35	145				28	14.9	80	
31							↑ BOTTOM OF BORING AT 30.9 METERS				

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 2 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHP-5

Date Drilled: 1/6/92
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES
Surface Elevation: 3.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	16				**SILTY CLAY (CL)** Very stiff, moist, reddish brown	16	16.3	252	
1										
2	2	1380 kPa	430				15	17.0	455	
						SILTY CLAY (CL) Soft, light gray brown and orange brown mottled, with some fine sand				
3										
	3	1550 kPa	35				25	15.1	27	
4						**CLAYEY SAND (SC)** Loose, moist to wet, brown				
5	4	12					23	15.9		
						SILTY CLAY (CL) Stiff, moist to wet, brown				
6										
	5	26	190-240				21	16.5	141	
7										
8	6	11	45-95			Soft, moist, brown mottled light brown, some fine to medium sand	22	16.7	37	
9						**SILTY FINE TO COARSE SAND (SP-SM)** Dense, light brown				
	7	39								
10						**SANDY CLAY (CL)** Medium, moist, light brown, some fine gravel				
11	8	20	75-165				21	16.5	63	
12										
	9	14	75-165				22	16.3	55	
13										
						CLAYEY SAND (SC) Very dense, gray and brown, with some medium (sic) to coarse gravel				
14	10	62								
						FINE TO COARSE SAND (SP-SM) Dense, brown/black, some silt and fine to				
15										

Station: 10+147 (meters) Offset: -69 (meters:positive=east) (601423.98/1871372.23)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHP-5

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						coarse gravel				
	11	46					24			+#4=0 -#200=11%
16										
17	12	84				Very dense				
18	13	50/ 140 mm								
						BOTTOM OF BORING AT 18.4 METERS				
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHPA-2

Date Drilled: 6/6/88

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES - Citing Boring 2 from PSC Associates, Inc.; Job No.88122.10

Surface Elevation: 3.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Silty CLAY (CL) Dark brown, organics, hard, moist				
	2-1	67					18	14.5		
1						**Silty SAND (SM)** Brown, moist, medium dense				
2	2-2	44				6 HOURS AD ▼	23	16.2		
3						Finer sand				
	2-3	31					23	16.2		
4						**Clayey fine SAND (SC)** Brown, wet, medium dense ▽				
5	2-4	22					25	15.9		
6	2-5	60/ 125 mm				Very dense	22	17.0		
7										
8	2-6						22			
9										
	2-7	50/ 125 mm					25			
10										
11	2-8						23			
12	2-9	29				Medium dense	21	16.5		
13						BOTTOM OF BORING AT 12.3 METERS				
14										
15										

Station: 10+174 (meters)

Offset: -120 (meters:positive=east)

(601371.59/1871342.82)

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: HHPA-3

Date Drilled: 6/6/88
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 91C0639R - HETCH-HETCHY PIPELINES - Citing Boring 3 from PSC Associates, Inc.; Job No.88122.10

Surface Elevation: 3.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	3-1	30				**Clayey SAND (SC)** Brown, with organics, medium dense, slightly moist	13	12.6		
1										
2	3-2	SL				**Sandy silty CLAY (CL)** Dark brown, very stiff, moist	29	14.8		
3						**Fine gravelly SAND (SW)** Light brown, medium dense, moist				
	3-3	32				2 HOURS AD ▼ ▽	23	16.2		
4										
5	3-4	18				Brown and gray color	24	16.2		
6										
	3-5	46				**Sandy CLAY to Clayey SAND (CL-SC)** Light brown, wet, medium dense Less clayey	19	17.1		
7										
	3-6						25			
8										
9										
	3-7	67				**Coarse silty SAND (SM)** Gray brown, wet, dense	19	17.0		
10										
11	3-8					**Sandy CLAY (CL)** Brown, wet, stiff	20			
12										
	3-9	21								No recovery
13										
	3-10					**Clayey fine SAND (SC)** Brown, medium dense, wet	20			
14										
15						**Clean SAND (SW)**				

Station: 10+174 (meters) Offset: -68 (meters:positive=east) (601397.29/1871387.22)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 2 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: HHPA-3

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Gray, with some gravel, medium dense, wet				
	3-11	42					16			
16										
17	3-12						18			
						Clayey SAND (SC) Gray, with some gravel, medium dense, wet				
18	3-13	35								No recovery
						BOTTOM OF BORING AT 18.3 METERS				
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: OPS-1

Date Drilled: 6/11/86
Type of Boring: 76 mm Solid Auger ("Minute Man" Rig)
Hammer/drop: 354 N/760 mm

Remarks: From 16784V - GEOTECH.CONSULTATION OAKMEAD STORM PUMP STATION
Surface Elevation: 1.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	0				**SILTY CLAY (CL-OH)** Very soft, wet, black mottled with gray, with roots and grass, organic ∇	99	6.9	9	
	2	11					58	9.9	6	
	3	27				**SANDY CLAY (CL)** Medium, moist, light grayish-brown mottled with orange, with thin seams of brown sand	22	16.3	55	
	4	15				**CLAYEY SAND (SC)** Medium dense, wet, brown Fine sand lens	23	16.3		
	5	12				**SILTY CLAY (CL-ML)** Stiff, moist, brown with orange-brown mottling	34	13.8	116	
	6	15				**SILTY CLAY (CL-CH)** Medium, moist, gray and brown mottled, trace of fine gravel, some fine sand	23	16.3	57	
						BOTTOM OF BORING AT 8.1 METERS				

Station: 8+666 (meters) Offset: 23 (meters:positive=east) (602462.47/1870405.83)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: OPS-2

Date Drilled: 6/17/86
Type of Boring: 76 mm Solid Auger ("Minute Man" Rig)
Hammer/drop: 354 N/760 mm

Remarks: From 16784V - GEOTECH.CONSULTATION OAKMEAD STORM PUMP STATION

Surface Elevation: 1.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						ROOTS and ORGANIC MATTER				
	1	2/ 150 mm				**SILTY CLAY (CL-OH)** Very soft, wet, dark gray, with 25 mm black roots, organic	64	9.0		
1										
	2	14				**SILTY CLAY (CL)** Stiff, moist, dark gray, trace of fine gravel, with some sand, organic	19	17.4	190	
2										
						SILTY CLAY (CL) Very stiff, moist, orange-brown and gray mottled, trace of fine sand				
3										
	3	28					22	16.3	302	
						∇				
4										
						SANDY CLAY (CL) Medium to soft, moist, brown with dark brown speckles				
	4	16								
5										
	5	6								
							24			
						SILTY CLAY (CL-CH) Medium, moist, grayish brown, trace of fine sand, trace of grass				
6										
	6	12					30	14.6	51	
7										
	7	12				Gray and orangish brown mottled with white specks	29	14.9	85	
8										
9										
						BOTTOM OF BORING AT 9.1 METERS				
10										
11										
12										
13										
14										
15										

Station: 8+664 (meters)
Offset: 29 (meters:positive=east)
(602467.17/1870409.98)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: OPS-3

Date Drilled: 6/17/86
Type of Boring: 76 mm Solid Auger ("Minute Man" Rig)
Hammer/drop: 354 N/760 mm

Remarks: From 16784V - GEOTECH.CONSULTATION OAKMEAD STORM PUMP STATION
Surface Elevation: 1.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	2/ 450 mm				**SILTY CLAY (CH-OH)** Very soft, wet, gray with black roots and organic matter ▽	77			
2	2	30					24	15.7	40	
3						**SILTY CLAY (CL-CH)** Soft, moist, grayish-brown and dark gray mottled, trace of fine sand and fine gravel to 13 mm, slightly organic				
4	3	12				**SILTY CLAY (CL-CH)** Soft, wet, dark grayish brown, trace of fine sand and fine roots, slightly organic	29	14.8	46	
5	4	4				**SILTY CLAY (CL-CH-OH)** Soft, wet, dark gray-brown, with wood chips and roots, organic	66	9.1	38	
6	5	10				↓ Increase in organic matter (13 to 25 mm long pieces of wood)	69	9.0	36	
7										
8						↑ BOTTOM OF BORING AT 7.6 METERS NOTE: Hole cave-in occurred at depth of 2.1 meters when auger removed from depth of 7.6 meters. Another hole was offset 0.9 meters east and augered to 7.6 meters. Hole cave-in immediately occurred at depth of 1.8 meters when auger removed from depth of 7.6 meters.				
9										
10										
11										
12										
13										
14										
15										

Station: 8+627 (meters) Offset: 24 (meters:positive=east) (602495.38/1870384.85)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: OPS-4

Date Drilled: 6/17/86
Type of Boring: 76 mm Solid Auger ("Minute Man" Rig)
Hammer/drop: 354 N/760 mm

Remarks: From 16784V - GEOTECH.CONSULTATION OAKMEAD STORM PUMP STATION

Surface Elevation: 1.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						ROOTS and LEAVES				
1	1	1/ 455 mm				**SILTY CLAY (CH-OH)** Very soft, wet, dark gray to black, with organic matter				
2	2	13				Less organic matter ▽ **SILTY CLAY (CH)** Stiff, wet, grayish brown with olive-brown mottling, with black semi-solid organic matter	22	16.3	129	
3	3	5				**SILTY CLAY (CH-OH)** Very soft, wet, dark gray with black mottling, some fine sand, slightly organic	34	13.7	19	
4										
5	4	9				Soft, roots and pieces of wood	60	9.6	42	
6						BOTTOM OF BORING AT 6.1 METERS NOTE: Hole cave-in occurred at depth 1.8 meters when auger removed from depth of 6.1 meters.				
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 8+627 (meters) Offset: 31 (meters:positive=east) (602499.30/1870389.80)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PRMAR-1

Date Drilled: 1/15/62
Type of Boring: 305 mm Helical Auger
Hammer/drop: N/A

Remarks: From Project 1140 - PROPOSED MARINA - ALVISO - Soil Mech. & Found. Engineers (02/62)

Surface Elevation: 2.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	▽				▨	**SILTY CLAY** Medium soft, gray, organic				
1					▨					
	▽				▨	**SILTY CLAY** Soft, gray, organic				
2					▨		35			LL=59 PI=40
	▽				▨					
3					▨		37			LL=63 PI=42
	▽				▨					
4					▨		35			
	▽ ▽				▨	**SANDY SILTY CLAY** Stiff to very stiff, light brown	24			LL=59 PI=41
5					▨					
	▽				▨		22			LL=48 PI=31
						BOTTOM OF BORING AT 5.5 METERS				
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+020 (meters)　Offset: 133 (meters:positive=east)　(604339.35/1868787.98)

Project: 95-973017NB.00　**URS Greiner Woodward Clyde**　Sheet 1 of 1　Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PRMAR-3

Date Drilled: 1/15/62
Type of Boring: 305 mm Helical Auger
Hammer/drop: N/A

Remarks: From Project 1140 - PROPOSED MARINA - ALVISO - Soil Mech. & Found. Engineers (02/62)

Surface Elevation: 2.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY Medium soft, gray, organic				
						WL IN POND ▼				
	☒					**SILTY CLAY** Soft, gray, organic				
	☒						35	13.0	46	
	▽						18			LL=58 PI=40
						SANDY SILTY CLAY Stiff to very stiff, light brown				
						BOTTOM OF BORING AT 3.7 METERS				

Station: 6+182 (meters)   Offset: 167 (meters:positive=east)   (604220.32/1869008.61)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

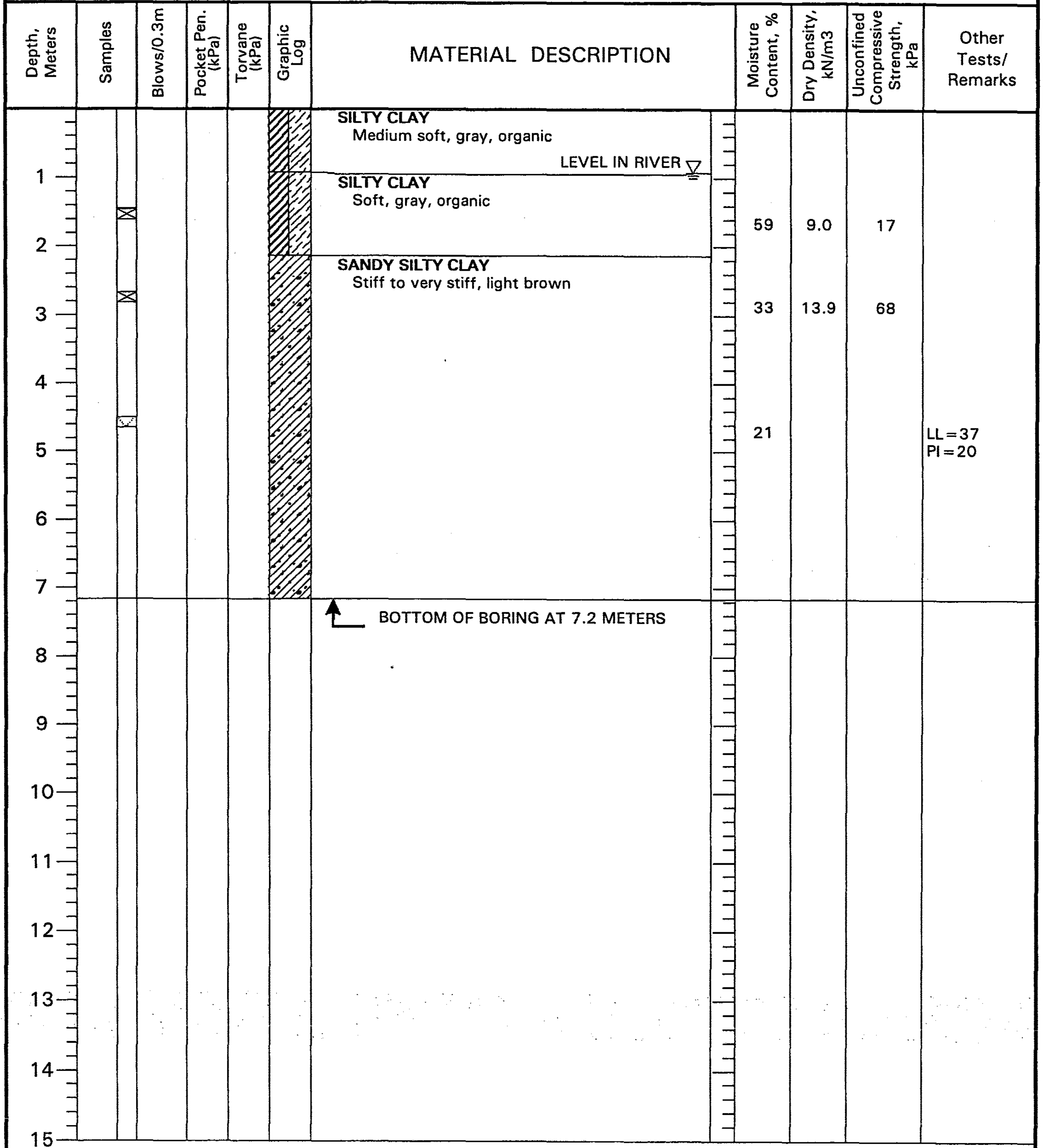
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PRMAR-5

Date Drilled: 1/15/62
Type of Boring: 305 mm Helical Auger
Hammer/drop: N/A

Remarks: From Project 1140 - PROPOSED MARINA - ALVISO - Soil Mech. & Found. Engineers (02/62)

Surface Elevation: 2.0 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
0–0.9						**SILTY CLAY** Medium soft, gray, organic LEVEL IN RIVER ▽				
0.9–2.1	☒					**SILTY CLAY** Soft, gray, organic	59	9.0	17	
2.1–7.2	☒					**SANDY SILTY CLAY** Stiff to very stiff, light brown	33	13.9	68	
							21			LL=37 PI=20
7.2						BOTTOM OF BORING AT 7.2 METERS				

Station: 6+290 (meters)
Offset: 311 (meters:positive=east)
(604166.34/1869205.21)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PRMAR-9

Date Drilled: 1/15/62
Type of Boring: 305 mm Helical Auger
Hammer/drop: N/A

Remarks: From Project 1140 - PROPOSED MARINA - ALVISO - Soil Mech. & Found. Engineers (02/62)

Surface Elevation: 2.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨	**SILTY CLAY** Medium soft, gray, organic				
1					▨	LEVEL IN RIVER ∇				
	☒				▨	**SILTY CLAY** Soft, gray, organic	76	8.1	17	
2					▨					
	☒				▨		76	8.2	18	
3					▨					
	☒				▨	**SANDY SILTY CLAY** Stiff to very stiff, light brown	36	13.5	40	
4					▨					
5					▨					
						BOTTOM OF BORING AT 5.1 METERS				
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+140 (meters)
Offset: 494 (meters:positive=east)
(604505.88/1869191.91)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PYH-1

Date Drilled: 1/29/60
Type of Boring: 610 mm Rotary Bucket
Hammer/drop: N/A

Remarks: From Project 33A(?) - PROPOSED YACHT HARBOR - ALVISO - Cooper & Clark Consulting Engineers (01/60)

Surface Elevation: 3.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨	**ORGANIC SILTY CLAY (OH)** Gray, with some partially decayed vegetation (Soft Bay Mud)				
1	☒				▨	← Dark gray lens	41	11.6		Direct Shear: Test surcharge pressure = 14 kPa; strength = 33 kPa
2					▨					
3	☒				▨		34	12.9		Direct Shear: Test surcharge pressure = 29 kPa; strength = 30 kPa
4					▨	↓ Mussel shells and fairly fresh vegetation				
5	☒				▨	**SANDY CLAY (CL)** Grayish-brown, fine grained, grades brown with depth	31	14.1		Direct Shear: Test surcharge pressure = 48 kPa; strength = 47 kPa
6	☒				▨		21	16.8		Direct Shear: Test surcharge pressure = 62 kPa; strength = 79 kPa
7					▨					
8	☒				▨		19	17.4		Direct Shear: Test surcharge pressure = 77 kPa;strength = 92 kPa
						↑ BOTTOM OF BORING AT 7.9 METERS				
9										
10										
11										
12										
13										
14										
15										

Station: 6+181 (meters) Offset: 174 (meters:positive=east) (604225.23/1869014.31)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: PYH-3

Date Drilled: 1/29/60

Type of Boring: 610 mm Rotary Bucket

Hammer/drop: N/A

Remarks: From Project 33A(?) - PROPOSED YACHT HARBOR - ALVISO - Cooper & Clark Consulting Engineers (01/60)

Surface Elevation: 2.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
0					▨	**ORGANIC SILTY CLAY (OH)** Gray, with some partially decayed vegetation (Soft Bay Mud)				
1	☒				▨	Alternately gray and dark gray	49	10.1		Direct Shear: Test surcharge pressure = 14 kPa; strength = 12 kPa
2.5	☒				▨	Dark gray, much vegetation	104	6.6		Direct Shear: Test surcharge pressure = 19 kPa; strength = 16 kPa
3.4					▨	**SANDY CLAY (CL)** Grayish-brown, fine grained, grades brown and hard with depth				
4	☒					BOTTOM OF BORING AT 4.0 METERS	25	15.6		Direct Shear: Test surcharge pressure = 34 kPa; strength = 157 kPa

Station: 6+295 (meters) Offset: 389 (meters:positive=east) (604197.19/1869277.03)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

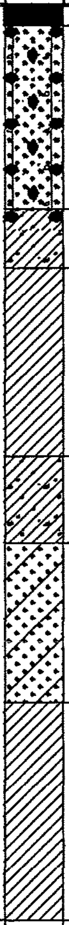
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RBPS-56

Date Drilled: 2/12/87
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171X - RETENTION BASIN AND PUMP STATION

Surface Elevation: 11.0 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						191 mm Asphalt Concrete				
						SILTY SAND AND GRAVEL - FILL With occasional asphalt fragments, 13 to 25 mm gravel				
1	1	28					8	15.7	81	+#4=53% -#200=11%
2	2	20				FILL				
						SANDY CLAY (CL) Very stiff, brown, with some gravel. No gravel below 2.3 meters				
3						**SILTY CLAY (CL)** Stiff, dark brown				
	3	8					21	14.8	57	LL=29 PI=9
4										
5	4	19				**SANDY CLAY (CL)** Medium stiff, light gray	20	16.3	75	
						▽				
						CLAYEY SAND (SC) Medium dense, light gray				
6										
	5	12					22	16.7	58	
7										
						SILTY CLAY (CL) Stiff, gray-blue				
8	6	10					23	15.6	107	
						Medium stiff, with silty sand (SM) lenses				
9										
	7	18					31	14.3	75	
10						BOTTOM OF BORING AT 9.6 METERS				
11										
12										
13										
14										
15										

Station: 14+582 (meters) Offset: -40 (meters:positive=east) (598029.03/1873044.54)

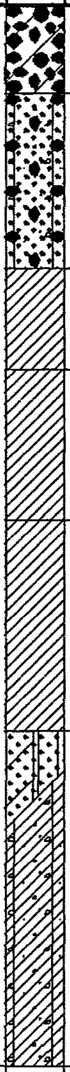
Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RBPS-57

Date Drilled: 2/12/87
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171X - RETENTION BASIN AND PUMP STATION
Surface Elevation: 11.0 meters (approx.)



Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	20			**CLAYEY GRAVEL AND AC PARTICLES - FILL**	11	17.4	55	
2	21			**SILTY SAND (SM), ROCK FRAGMENTS AND ASPHALT FRAGMENTS - FILL** Dark gray-black				+#4=44% -#200=10%
				FILL				
3	16			**SILTY CLAY (CL)** Stiff, brown	23	15.1	103	
4	36			**SILTY CLAY (CL)** Hard, gray	28	14.8	484	
				3/2/87				
5	27			**SILTY CLAY (CL)** Medium, light gray	18	17.4	84	
6	10				24	15.9	88	
				SILTY CLAYEY SAND (SM-SC) Medium dense, blue-gray				
7	21			Grading to clayey silt with fine sand				
8	17				21	16.3	134	
				BOTTOM OF BORING AT 11.1 METERS				

Station: 14+578 (meters) Offset: -61 (meters:positive=east) (598038.64/1873025.40)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RBPS-58

Date Drilled: 2/12/87
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171X - RETENTION BASIN AND PUMP STATION

Surface Elevation: 10.7 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▩	**MIXED SILTY CLAY, GRAVEL, SAND, SILT AND CLAY - FILL**				
1	1				▩	← Fiberglass	8	16.2		
2	2	24			▩	FILL ↑	7	18.2	68	
					▨	**SILTY CLAY (CL)** Stiff, brown				
3	3	24			▨	Dark brown	30	13.2	184	
4					▨	**SILTY CLAY (CL)** Very stiff, light gray				
5	4	35			▨		24	16.0	246	
6	5	22			▨ ●	Stiff, with some gravel ▽				
7					▨ ●					
8	6	10			▨	**SILTY CLAY (CL)** Medium stiff, light blue-gray	23	15.7	60	
9					⁙	**SILTY SAND (SM)** Dense, blue-gray				
	7	30			⁙					
10						BOTTOM OF BORING AT 9.6 METERS				
11										
12										
13										
14										
15										

Station: 14+569 (meters) Offset: -97 (meters:positive=east) (598060.46/1872993.79)

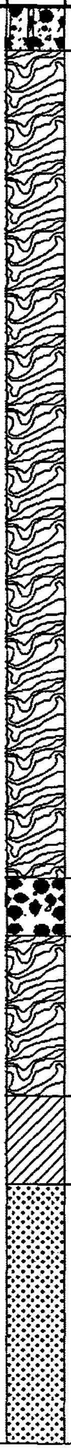
Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: REAL1-1

Date Drilled: 5/29/62
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 5135 - SOIL INVEST.GUAD.RIV.PROJ.-REALIGN.WITHIN REACH 1 - 6/62
Surface Elevation: 1.1 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					SANDY SILT Medium dense, dry, with 79% rock fragments (Road ????)				
1	1-1	4			∇ **BAY MUD** Soft, light green gray to gray black, traces of peat	65	9.4	54	
2					Increase in peat content				
3	1-2	2				109	6.4	21	
5	1-3					86	8.0	17	
7	1-4					55	10.5	16	
9					**SAND** Loose, green-gray, with 50% gravel (3 to 19 mm diameter)				
10	1-5				**BAY MUD** Soft, light green-gray				Lost Sample
11					**SILTY CLAY** Stiff, moist, banded brown, light gray-green				
12					**SAND** Medium dense to dense, green, medium grained				
13	1-6	30				25	15.4		Hole Caving from 12.5m to 14.5m
15									

Station: 6+542 (meters) Offset: -76 (meters:positive=east) (603778.88/1868954.06)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: REAL1-1

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1-7 ▨	62			░		16	18.2		
						BOTTOM OF BORING AT 15.5 METERS				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: REAL1-2

Date Drilled: 5/29/62
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 5135 - SOIL INVEST.GUAD.RIV.PROJ.-REALIGN.WITHIN REACH 1 - 6/62

Surface Elevation: 1.1 meters (approx.)

Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
				CLAYEY SILT Loose, tan-gray				
2-1	·5			**BAY MUD** Medium stiff, gray, traces of peat ▽	35	13.5	59	
				SAND Loose, green-gray, medium grained				
				BAY MUD Soft, wet, gray, with traces of peat				
2-2	14			**BAY MUD** Stiff, moist, mottled gray	23	16.0	220	
				SILTY CLAY to SANDY SILTY CLAY Very stiff, damp to wet, light brown				
				SAND Medium dense, wet, brown, fine to medium grained				
2-3	13			**SILTY CLAY** Stiff, moist, mottled gray-brown	26	15.9	71	
2-4	21			**SILTY CLAY** Stiff to very stiff, mottled blue-gray	30	14.8	191	
2-5	18				28	14.9	158	
				CLAYEY SILT to CLAYEY SAND Medium dense, wet, fine grained				
2-6				**SAND** Loose, wet, gray-green				Lost sample
								Hole Caving from 12.2m to 15.2m

Station: 6+363 (meters) Offset: -71 (meters:positive=east) (603928.80/1868897.39)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: REAL1-2

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	2-7 ▧	97			▒		18	17.4		
16						BOTTOM OF BORING AT 15.7 METERS				
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 2 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: REAL1-3

Date Drilled: 5/29/62
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 5135 - SOIL INVEST.GUAD.RIV.PROJ.-REALIGN.WITHIN REACH 1 - 6/62
Surface Elevation: 1.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					PEAT WITH ROOTS				
1	3-1	9			**BAY MUD** Soft, damp, mottled gray brown, with roots	30	14.6	95	
2					**SILTY CLAY** Medium stiff, wet, black ▼				
3 4	3-2	30			**SILTY CLAY** Stiff to very stiff, damp, mottled tan	21	16.7	393	
	3-3	40			**SANDY CLAY** Very stiff, light green-gray-tan ▽				
5					**SAND** Dense, light green-gray-tan, medium grained, trace gravel	15	18.7	63	
6 7					**SILTY CLAY** Very stiff to hard, damp, blue-gray				
8	3-4	11			**SILTY CLAY** Stiff, moist, mottled light brown-gray-green	31	15.1	36	
9					**CLAYEY SILT to CLAYEY SAND** Medium dense, wet, gray				Hole Caving from 9.5m to 14.5m
10 11 12 13 14	3-5	29			**SAND** Loose, wet Medium dense to dense	29	14.9	56	
15					**SAND with GRAVEL** Dense, green, coarse grained sand				

Station: 6+133 (meters)
Offset: -100 (meters:positive=east)
(604082.30/1868774.80)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT | **Log of Boring: REAL1-3** (continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	3-6	58					8	20.3		
						BOTTOM OF BORING AT 15.2 METERS				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-G1

Date Drilled: 9/2/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION
Surface Elevation: 21.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	18				**CLAYEY SILT (ML) FILL** Moderately to well compacted, dry, dark brown, some well graded sand, little fine gravel	12	16.2	38	
2	2	15				**CLAYEY SILT (MH) FILL** Moderately to well compacted, moist, dark brown, trace fine sand FILL	27	12.6	106	LL=62 PI=27
3	3	16				**SILTY CLAY (CL)** Stiff, moist, mottled gray and reddish brown, trace fine sand	33	12.7	118	
4										
5	4	13					35	13.0	148	
6	5	19				**SILTY SAND (SM)** Medium dense, wet, brown with gray mottling, fine sand	20	15.4		
7						**SILTY CLAY (CH)** Very stiff, moist, dark gray				
8	6	16	240			**SANDY SILT (ML)** Stiff, moist, grayish brown, trace clay, fine sand	25	15.6		
9	7	17				**SILTY CLAY (CL)** Stiff, moist, dark gray, trace fine sand, slight organic odor ⊽	25	15.4	137	
10										
11	8	18				Becomes olive gray with blue-gray mottling, no odor	29	14.9	108	
12	9	17				Becomes dark gray with no mottling, slight organic odor	30	14.6	119	
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: (meters) Offset: (meters:positive=east) (/)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-G2

Date Drilled: 9/2/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION
Surface Elevation: 21.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	14			▨	**SILTY CLAY (CL) FILL** Moderately to well compacted, moist, dark brown, trace well graded sand, trace fine gravel	23	13.7	85	
2	2	16			▨		26	13.5	192	
3	3	16			▨	FILL **SILTY CLAY (CL)** Stiff, moist, mottled brownish gray and reddish brown, trace fine sand	33	13.0	158	
4					▨					
5	4	14			▨	No sand	36	13.5	117	LL=45 PI=20
6	5	19			▨	Becomes light brown with reddish brown mottling, little fine sand	29	14.5	140	
7						BOTTOM OF BORING AT 6.6 METERS No groundwater encountered ATD				
8										
9										
10										
11										
12										
13										
14										
15										

Station: (meters)
Offset: (meters:positive=east)
(/)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R1

Date Drilled: 11/12/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 21.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SANDY SILT - SILTY SAND (ML-SM) FILL Moderately compacted, moist, brown, fine sand, trace rootlets				
1	1	8				FILL	9	13.5	61	
						SILTY CLAY (CL) Medium, moist, brown, trace fine sand				
2	2	8					15	14.0	79	
						Becomes very stiff, gray with red brown mottling, increased plasticity, no sand				
3	3	22					24	14.6	231	
4										
5	4	22				Becomes gray and red brown mottled, trace fine sand, trace rootlets	22	14.8	240	
6	5	10				**SANDY CLAY (CL)** Medium, moist, olive gray, fine sand	26	15.6	44	
7						∇				
8	6	7				**SILTY CLAY (CL)** Medium, moist, dark olive gray, trace fine sand	46	11.5	50	
9	7	11				Little fine sand	25	15.7	50	
10										
11	8	8				**SILTY SAND (SM)** Loose, wet, gray and brown mottled, trace clay, fine sand				
	9	7					24			
12	10	9				**SANDY CLAY (CL)** Medium, moist, dark olive gray, fine sand	28	15.1	48	
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: (meters) Offset: (meters:positive = east) (/)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R10

Date Drilled: 9/3/92

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 13.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	21	>430		▨	**SILTY CLAY (CL) FILL** Moderately compacted, dry, dark brown, little fine sand, trace fine gravel, contains fine sand lenses. FILL	12	16.5		
2	2	14			▨	**SILTY CLAY (CL)** Stiff, moist, dark brown	29	13.2	105	
3 4	3	26			▨	**SILTY CLAY (CH)** Stiff, moist, gray with reddish brown mottling	35	13.0	186	LL=76 PI=42
5	4	14			▨	Becomes dark gray with reddish brown mottling	31	13.7	141	
6					▨	**SILTY CLAY (CL)** Stiff, moist, dark gray				
7	5	25			░	▽ SILTY SAND (SM) Lens, Medium dense, wet, brown with reddish brown mottling, some gravel	12	19.5		+#4=36% -#200=17%
8	6	11			▨	Becomes olive gray, little fine sand	26	15.4	102	
9 10	7	16			░	**SANDY CLAY (CL)** Stiff, moist, greenish gray, fine sand, little organic odor	31	14.3	65	
11	8	13			░	Becomes mottled olive and dark gray	20	16.8		+#4=2% -#200=53%
12	9	11			▨	**SILTY CLAY (CL)** Medium, moist, greenish gray, trace fine sand	29	14.8	65	
13 14 15						BOTTOM OF BORING AT 12.7 METERS				

Station: 15+823 (meters) Offset: 37 (meters:positive=east) (597177.20/1873920.47)

Project: 95-973017NB.00 URS Greiner Woodward Clyde Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R11

Date Drilled: 9/3/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 12.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						GRAVELLY SANDY SILT (ML) FILL Moderately compacted, dry, light brown				
1	1	16				**SILTY SAND (SM) FILL** Moderately compacted, moist, dark brown, fine sand	22	14.0		
2	2	24				**SILTY CLAY (CL) FILL** Moderately compacted, moist, dark brown FILL	21	16.0	472	
3	3	33				**SILTY CLAY (CL)** Very stiff, moist, gray with reddish brown mottling	32	13.4	276	
4										
5	4	13				**SANDY CLAY (CL)** Stiff, moist, light grayish brown with reddish brown mottling, fine sand	24	16.0	73	
6	5	15				**SILTY CLAY (CL)** Stiff, moist, gray with reddish brown mottling, some fine sand, some calcite nodules	25	15.7	102	
7						▽				
8	6	17				**SANDY CLAY (CL)** Stiff, moist, light gray and brown, fine sand	23	16.2		+#4=0% -#200=65%
9	7	22				Becomes olive brown, increase in fine sand	25	15.7	129	
10										
11	8	50/ 125 mm				**GRAVELLY SAND (SW)** Very dense, wet, dark gray, trace silt, well graded sand, fine gravel	11	17.7		+#4=21% -#200=2%
12	9	50/ 125 mm								
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: 15+616 (meters)   Offset: 28 (meters:positive=east)   (597289.75/1873765.66)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R2

Date Drilled: 9/11/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 70.0 _ meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	8				**SILTY CLAY (CL) FILL** Poorly compacted, dry, dark brown FILL	14	13.8		
1	2	11				**SILTY SAND (SM) FILL** Moderately compacted, dry, light brown	6	14.3		
2	3	8				**SILTY CLAY (CL)** Medium, moist, dark brown	18	13.2	82	
3	4	23				Becomes very stiff, brown with reddish brown mottling	29	13.5	301	
4										
5	5	20				Becomes mottled gray and reddish brown	26	14.3	302	
6	6	16					11	14.9		
7						**SILTY SAND (SM)** Medium dense, moist, olive brown, fine sand				
8	7	10				Becomes loose, olive gray, trace clay	20	16.0		
9	8	17				**SILTY CLAY (CH)** Medium, moist, dark gray, trace fine sand	28	14.3	62	
10						**CLAYEY SAND (SC)** Loose, wet, olive gray, fine sand ▽				
11	9	10					25	15.7	75	
12	10	15				Increase in clay	25	15.6		
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: (meters) Offset: (meters:positive=east) (/)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R3

Date Drilled: 9/10/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 20.7 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	11				**SILTY SAND (SM) FILL** Moderately compacted, dry, dark brown, fine sand	7			+#4=2% -#200=45%
	2	11				**SILTY CLAY (CL) FILL** Moderately compacted, moist, brown	21	12.7	98	
	3	19				FILL	15	14.9	160	
						SILTY CLAY (CH) Very stiff, dry, brown, trace fine sand				
	4	24								LL=58 PI=26
	5	19				Becomes moist, black with reddish brown mottling	25	14.8	337	
						SILTY CLAY (CL) Very stiff, moist, gray with reddish brown mottling				
	6	22					33	13.4	229	
	7	13				Becomes stiff, gray with dark brown and reddish brown, mottling	38	12.4	158	
	8	11					21	16.7	147	
	9	55				▽ **SANDY GRAVEL (GW-GM)** Dense, wet, dark grayish brown, well graded sand, well graded gravel	8			+4#=50% -#200=7%
	10	51								
						BOTTOM OF BORING AT 12.7 METERS				

Station: (meters) Offset: (meters:positive=east) (/)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R4

Date Drilled: 9/10/92

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 17.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	33			▨	**SILTY CLAY (CL) FILL** Moderately compacted, dry, dark brown, little well graded sand, trace fine gravel	7	16.5		
1	2	29			░	**SILTY SAND (SM) FILL** Well compacted, dry, light brown, well graded sand, little gravel	6			+#4=16% -#200=30%
2	3	26			░	Fine sand, no gravel	9	15.4		+#4=0% -#200=57%
					░	Sporadic drilling, possible voids				
3					░	FILL				
	4	16			▨	**SILTY CLAY (CL)** Very stiff, moist, dark brown, little fine sand	19	15.2	329	
4					░	**SILTY SAND (SM)** Medium dense, dry brown, well graded sand, little fine gravel				
5	5	25			░		6			+#4=13% -#200=12%
6	6	9			▨	**SILTY CLAY (CL)** Stiff, moist, mottled dark gray and brown, slight organic odor	31	14.3	104	
7					▨	▽				
8	7	14			▨	**SILTY CLAY (CH)** Stiff, moist, dark bluish gray, slight organic odor	46	11.8	98	
9	8	10			▨	**SILTY CLAY (CL)** Medium, moist, gray, trace fine sand	26	15.4	48	
10					▨					
11	9	16			▨	Becomes stiff	26	15.6	129	
12	10	15			▨		27	15.2	62	
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: 17+402 (meters) Offset: 31 (meters:positive=east) (595896.80/1874832.58)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R5

Date Drilled: 9/9/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 18.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	13				**CLAYEY SILT (ML) FILL** Moderately compacted, dry, dark brown, little fine sand. Well graded gravel, some black silty clay below 0.6 meters	10	15.2		
1	2	18								
2	3	25				**SILTY CLAY (CL) FILL** Moderately compacted, dry, dark grayish brown	25	14.1	251	
3	4	36				Becomes dark brown	23	14.1	357	
4						FILL **SILTY CLAY (CL)** Stiff, moist, mottled gray and brown				
5	5	24				**SILTY CLAY (CH)** Hard, moist, black	16	15.9	414	
6	6	27				**SANDY SILT (ML)** Very stiff, moist, mottled light brown and light gray brown with black speckling	9	14.5		+#4=5% -#200=63%
7						**SILTY CLAY (CL)** Very stiff, moist, mottled gray and light gray-brown				
8	7	16				Becomes stiff, moist, dark gray with iron-oxide staining, trace fine sand ▽	35	12.7	235	
9	8	16				Becomes stiff, bluish gray with olive mottling	21	16.8	126	
10										
11	9	17				**SANDY CLAY (CL)** Stiff, moist, mottled gray and olive, fine sand	25	16.0	106	
12	10	17				**SILTY CLAY (CL)** Stiff, moist, mottled gray and olive, little fine sand	26	15.4	100	
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: 17+245 (meters) Offset: 34 (meters:positive=east) (596033.68/1874756.48)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R6

Date Drilled: 9/9/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 16.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨	**SILTY CLAY (CL) FILL** Moderately compacted, moist, dark brown and dark gray, trace fine sand				
1	1	23			▨		24	14.5	137	
2	2	19			▨	FILL	20	13.0	69	
					▨	**SILTY CLAY (CL)** Very stiff, moist, mottled brown and gray				
3	3	29			▨		22	14.6	339	
4					▥	**CLAYEY SILT (ML)** Stiff, dry, mottled brown and gray				
5	4	22			▥		9	14.3	158	LL=33 PI=9
					▨	**SILTY CLAY (CH)** Stiff, moist, black				
6	5	32			░	**SILTY SAND (SM)** Medium dense, dry, light brown with gray mottling, fine sand	7	16.0		
7					░					
8	6	17			▨	**SILTY CLAY (CL)** Stiff, moist, mottled gray and brown	27	14.1	463	
					▨	**SILTY CLAY (CH)** Hard, moist, black Becomes dark gray with reddish brown mottling				
9	7	10			▨	Becomes stiff, no mottling, slight organic odor	35	13.2	125	
10					▨					
11	8	13			░	**SANDY CLAY-CLAYEY SAND (CL-SC)** Stiff, moist, gray with olive brown mottling, fine sand	22	16.0		+#4=0% -#200=54%
12	9	16			░	∇	25	15.2	135	
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: 17+132 (meters)   Offset: 34 (meters:positive=east)   (596131.39/1874699.58)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R7

Date Drilled: 9/8/92

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 16.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	9				**SILTY CLAY (CL) FILL** Poorly compacted, moist, dark brown and dark gray, trace fine sand	18	14.0		
2	2	18				Becomes moderately compacted, dark brown FILL	18	16.3	357	
3	3	16				**SILTY CLAY (CH)** Very stiff, dark gray and reddish brown mottled	25	13.4	221	LL=61 PI=34
4						**CLAYEY SILT (ML)** Stiff, dry, mottled light brown and brown, little fine sand				
5	4	12				**SILTY CLAY (CL-CH)** Very stiff, moist, dark gray with reddish brown mottling	31	13.5	194	LL=50 PI=28
6	5	15				**SANDY CLAY (CL)** Medium, moist, mottled reddish brown and olive, fine sand	31	14.3	71	
7						**SILTY SAND (SM-SP)** Medium dense, moist, mottled light brown and reddish brown				
8	6	13				**SILTY CLAY (CL-CH)** ∇ Stiff, moist, dark gray, slight organic odor	49	11.3	127	
9						Some gravel				
10	7	34				**SILTY SAND (SM-SP)** Dense, wet, grayish brown, little well graded gravel	13	19.2		+4#=15% -#200=21%
11	8	38								
						GRAVELLY SAND (SW) LENS trace silt				
12	9	10				**SANDY CLAY (CL)** Medium, moist, gray and olive, fine sand	23	16.3	71	+#4=42% -#200=6%
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15						NOTE:				

Station: 16+974 (meters) Offset: 36 (meters:positive=east) (596268.50/1874620.91)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: RHM-R7

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						After the boring was drilled to a depth of 12.7 meters, it was backfilled with bentonite grout. A 8.2 meter deep well was then installed in a separate hole located about 8 feet to the north of the original boring.				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R8

Date Drilled: 9/4/92

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 16.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						CLAYEY SILT (ML) FILL Moderately compacted, dry, brown				
1	1	26				**SILTY CLAY (CL) FILL** Moderately compacted, dry, mottled dark brown and dark gray	17	15.7	278	
2	2	21				Trace fine sand FILL	14	15.7	119	
						SILTY CLAY (CL) Stiff, moist, grayish brown with reddish brown mottling				
3	3	23					22	14.3	173	
4						**SANDY SILT (ML)** Medium, dry, mottled yellow-brown and brown, little fine sand, trace fine gravel				
5	4	19				**SILTY CLAY (CL)** Very stiff, moist, mottled gray and reddish brown	32	13.0	208	+#4=2% -#200=83%
6	5	18				Becomes stiff, mottled gray and brown, little fine sand	26	15.6	170	
7										
8	6	12				Becomes slightly iron-oxide stained ∇	34	13.7	104	
9	7	16				**SILTY CLAY (CL-CH)** Medium, moist, dark bluish gray, slight organic odor	33	13.8	91	LL=45 PI=28
10						**SILTY CLAY (CL)** Stiff, moist, mottled gray and olive-brown, some fine sand				
11	8	19					21	16.8	139	
12	9	11				**SANDY CLAY-CLAYEY SAND (CL-SC)** Medium, wet, olive gray, fine sand	24	15.4	29	
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: 16+794 (meters) Offset: 42 (meters:positive=east) (596426.91/1874535.69)

Project: 95-973017NB.00 URS Greiner Woodward Clyde Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RHM-R9

Date Drilled: 9/4/92
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 92C0526R - Rt. 87 - RIPARIAN HABITAT MITIGATION

Surface Elevation: 16.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY SAND (SM) FILL Poorly to moderately compacted, dry, brown, fine sand				
1	1	10				**SILTY CLAY (CL) FILL** Moderately compacted, dry, dark brown, trace fine sand	16	13.2	42	
2	2	17				**SILTY SAND (SM) FILL** Moderately compacted, dry, dark brown, fine sand	11			
3						FILL				
	3	26				**SILTY CLAY (CL)** Very stiff, moist, mottled gray and brown, trace fine sand	22	14.0	221	
4						**CLAYEY SILT (ML)** Stiff, moist, mottled light brown and gray brown				
5	4	23				**SILTY CLAY (CL)** Very stiff, moist, dark brown with reddish brown mottling	23	13.5	163	
6	5	35				Becomes mottled reddish brown and gray	23	15.7	332	
7						**SILTY CLAY (CH)** Stiff, moist, dark gray				
8	6	15				∇	37	13.0	114	LL=63 PI=35
9						**SILTY CLAY (CL)** Stiff, moist, gray with olive mottling, trace fine sand				
10	7	25					25	15.7	115	
11	8	12				Medium, little fine sand	29	14.6	90	
12	9	17				**SANDY CLAY - CLAYEY SAND (CL-SC)** Medium, wet, olive gray, fine sand	26	15.4	31	
13						BOTTOM OF BORING AT 12.7 METERS				
14										
15										

Station: 16+693 (meters) Offset: 45 (meters:positive=east) (596516.18/1874487.31)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-1

Date Drilled: 7/7/69

Type of Boring: 102 mm Continuous Flight Auger

Hammer/drop: 623 N/760 mm

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 1.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		6				**Organic Silty CLAY (OL)** Firm, dark gray, with gravel and rock pieces ∇	28			
1										
		3				**Gravelly SAND (SW)** Very loose, dark gray, coarse grained with rock pieces	37			
2							33			LL=31 PI=17
						Silty CLAY (OL/CL) Soft, dark gray, (BAY MUD)				
3		12				**Silty CLAY (CL)** Stiff, gray, with a trace of gravel (BAY MUD)	36			
4						Medium, brown				
		14				**Silty SAND (SM)** Dense, gray	27			
5						**Silty CLAY (CL)** Stiff, tan, trace of gravel	24			LL=38 PI=18
6		14					33			
7						BOTTOM OF BORING AT 6.7 METERS				
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+663 (meters)

Offset: 198 (meters:positive=east)

(603704.45/1869242.61)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-2

Date Drilled: 7/7/69
Type of Boring: 102 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 0.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		20				**Clayey GRAVEL (GC)** Medium dense, dark brown, slightly organic	74			
1						**Silty CLAY (CL)** Very stiff, gray to dark gray, slightly organic, (BAY MUD) ∇				
2		6				**Gravelly SAND (SW)** Loose, dark gray, coarse	33			
						Silty CLAY (CL) Firm, dark gray, (BAY MUD)				
3		12				**Silty CLAY (CL)** Stiff, tan, trace gravel	25 21			
4										
5		11					57 30			
6		29				Very stiff with very little gravel				
7						BOTTOM OF BORING AT 6.6 METERS				
8										
9										
10										
11										
12										
13										
14										
15										

Station: 6+711 (meters) Offset: 192 (meters:positive=east) (603656.24/1869243.99)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-3

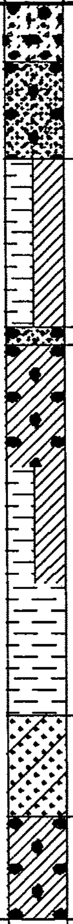
Date Drilled: 7/8/69

Type of Boring: 102 mm Continuous Flight Auger

Hammer/drop: 623 N/760 mm

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 0.2 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		00+				**GRAVEL, SAND - Mix (GW)** Very dense, brown **SAND - Gravelly (SW)** Very dense, brown				
		16				**Silty CLAY (CL/OL)** Stiff, dark gray, organic with some peat and wood shavings (BAY MUD)	20			
		12				**Gravelly SAND (SW)** Medium dense, brown gray **Silty CLAY (CL)** Stiff, dark gray, with some gravel (BAY MUD)				
		15				Slightly organic (CL-OL); very stiff	55			LL=35 PI=20
		7				**Silty CLAY (OL)** Firm, dark gray, with peat (BAY MUD)	28			
		7				**Clayey SAND (SC)** Loose, bluish gray, fine grained	21			
		16				**Silty CLAY (CL)** Stiff, tan, with some gravel	28			
						BOTTOM OF BORING AT 9.6 METERS				

Station: 6+983 (meters)   Offset: 104 (meters:positive=east)   (603564.56/1869246.53)

Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-4

Date Drilled: 7/8/69
Type of Boring: 102 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 1.7 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		5				**ROOTS, TRASH**				
						Silty CLAY (OL) Firm, black/brown, organic, with peat	177			
1						∇				
		2				**Highly organic CLAY (OH-OL)** Very soft, black/brown, with peat and wood shavings				
2							23			
3							59			
		2				Very soft to soft, black	35			
4										
		12				**Silty CLAY (CL)** Stiff, tan				
5							24			
6										
		9				**Gravel SAND (SP-SM)** Loose, light brown				
7						**Silty CLAY (CL)** Stiff, tan				
						BOTTOM OF BORING AT 6.6 METERS				
8										
9										
10										
11										
12										
13										
14										
15										

Station: 7+036 (meters) Offset: -97 (meters:positive=east) (603357.61/1869259.96)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-5

Date Drilled: 7/8/69
Type of Boring: 102 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 1.5 meters (approx.)

Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	5			**TRASH** Firm, brown, wood shavings, grass roots, some clay				
				Silty CLAY (CL-OL) Firm, black, slightly organic, (BAY MUD)				
	7				27			
				▽				
	6			**Silty CLAY (CL-OL/OH)** Firm, black, organic (BAY MUD)	38			
	27							
	18			**Silty CLAY (CL)** Very stiff, tan, with some gravel	21			
	13			**Gravelly SAND (SP-GP)** Medium dense, gray, coarse grained	29			
				BOTTOM OF BORING AT 6.6 METERS				

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 7+045 (meters) Offset: -145 (meters:positive=east) (603308.69/1869259.34)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

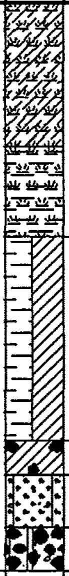
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: RREMB-6

Date Drilled: 7/8/69
Type of Boring: 102 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 109-1, PA 1233 - SPRR EMBANKMENT RAISING - John V. Lowney & Associates (10/69)

Surface Elevation: 1.5 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
		2				**MISCELLANEOUS FILL (OH-PT)** Very soft, black, highly organic with fresh grass roots				
1						∇				
2		13				**DUMP** Firm, black, highly organic with peat and gravel and wood shavings	23			
3		5				**Silty CLAY (OL-CL)** Stiff, dark gray, traces of peat and grass roots				
4		13					25			
5		14				**Silty CLAY (CL)** Stiff, tan, with some gravel	20			
						Silty SAND (SM) Medium dense, gray, medium grained				
6		37				**Sandy GRAVEL (GP-GM)** Very dense, gray, with some fines BOTTOM OF BORING AT 5.9 METERS	12			
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 7+081 (meters) Offset: -218 (meters:positive=east) (603230.40/1869279.92)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SBYC-15

Date Drilled: 4/6/83
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482-W-2000 - SOUTH BAY YACHT CLUB RELOCATION
Surface Elevation: -0.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	6				**SILTY CLAY (CL-CH) FILL** Poorly compacted, moist, dark gray and brown, with scattered rock fragments FILL 2 DAYS AD	18			
1						**SILTY CLAY (CH)** Stiff, dark gray and brown mottled ▽				
2	2	9				(BAY MUD)	25	15.2	98	
3	3	20				**SILTY CLAY (CL)** Very stiff, light brown, with some fine sand	19	17.3	299	
4						Slightly more plastic (CL-CH), hard, light brown and light gray mottled				
5	4	16				With cemented nodules	22	16.8	415	
						BOTTOM OF BORING AT 5.0 METERS				
6										
7										
8										

Station: 6+464 (meters) Offset: 150 (meters:positive=east) (603925.82/1869144.19)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SBYC-16

Date Drilled: 4/6/83
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482-W-2000 - SOUTH BAY YACHT CLUB RELOCATION

Surface Elevation: -0.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY (CL-CH) FILL Poorly compacted, moist, dark gray and brown, with rock fragments and traces of broken asphalt concrete				
						Less plastic (CL), brown FILL				
1	1	4				2 DAYS AD	30	14.3	35	
						SILTY CLAY (CH) Soft to medium, dark brown-gray, with some organic material (BAY MUD)				
2	2	14				**SILTY CLAY (CH)** Stiff, brown and gray mottled	23	16.2	152	
3						Slightly less plastic (CL-CH), light brown				
4	3	13					23	16.3	145	
						Brown				
5	4	8								
						SILTY CLAY (CL-ML) Medium, brown, with lenses and layers of Sandy to Clayey Silt (ML) and Clayey Sand (SC-SM)				
						SILTY SAND (SM) Loose to medium dense, gray-brown				
6						BOTTOM OF BORING AT 5.8 METERS				
7										
8										

Station: 6+453 (meters) Offset: 123 (meters:positive=east) (603928.90/1869113.64)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SBYC-17

Date Drilled: 4/6/83
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482-W-2000 - SOUTH BAY YACHT CLUB RELOCATION
Surface Elevation: -0.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY (CL-CH) FILL Poorly compacted, moist, dark gray and brown (MIXED CLAY FILL WITH SOME GRAVEL)				
	1	4					21	15.2		
						2 DAYS AD ▽ FILL	23	15.9		
1						**SILTY CLAY (CH) FILL** Poorly compacted, wet, dark brown-gray with pieces of rusty metal and glass				
						SILTY CLAY (CH) Medium, dark gray				
	2	7				Stiff, dark gray to black ▽	30	14.3	107	
2						(BAY MUD)				
						SILTY CLAY (CL-CH) Very stiff, brown and gray mottled				
3	3	18				Light brown and gray	22	16.8	224	
4										
						Less plastic (CL), stiff, light brown				
	4	16					22	16.7	154	
5						BOTTOM OF BORING AT 5.0 METERS				
6										
7										
8										

Station: 6+479 (meters) Offset: 118 (meters:positive = east) (603896.76/186921.10)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SBYC-18

Date Drilled: 4/6/83
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 15482-W-2000 - SOUTH BAY YACHT CLUB RELOCATION

Surface Elevation: -0.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY (CL and CH) FILL Poorly to moderately compacted, moist, brown to black (MIXED CLAY FILL WITH SAND & GRAVEL)				
	1	11				FILL	17	17.6		
1						**SILTY CLAY (CH)** Medium, wet, dark brown-gray to black, with some organic material				
	2	10				Stiff (BAY MUD)	31	14.0	110	
2						Gray				
	3	12					23	16.2	193	
						SILTY CLAY (CL-CH) Very stiff, gray and brown mottled				
3						Less plastic (CL), light brown				
4	4	28					17	18.1	217	
5						**SILTY CLAY (CL)** Stiff, brown and gray mottled				
	5	11				Grading to fine Sandy Clay (CL-ML), very silty				
6						BOTTOM OF BORING AT 6.1 METERS				
7										
8										

Station: 6+485 (meters)   Offset: 141 (meters:positive=east)   (603897.29/1869144.82)

Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-10

Date Drilled: 8/23/96

Type of Boring: 124 mm Rotary Wash

Hammer/drop: 623 N/760 mm

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE

Surface Elevation: 14.9 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	20	>430			**Fat CLAY (CH) FILL** Very stiff, dark olive gray with gray brown staining, some fine sand	24			
1	2	16	>430			**Fat CLAY (CH) FILL** Very stiff, very dark gray with strong brown mottling, minor fine sand FILL	23			
2	3	22	>430			**Lean CLAY (CL) with sand** Moist, dark grayish brown with yellow brown stains and dark olive mottling, some fine sand	22			
3	4	30	>430			**Silty SAND (SM)** Medium dense, moist, olive gray, fine sand	19	12.9	75	
4						**Lean CLAY (CL)** Very stiff to hard, moist, dark olive gray with yellow brown stains, minor fine sand				
5	5	27	215->430			**Fat CLAY (CH)** Very stiff, moist, dark gray and light olive brown with yellow brown staining Dry to 5.0 meters, then introduced drilling mud for rotary wash	26			
6						**Fat CLAY (CH)** Very stiff, moist, black, trace sand				
	6	12	145			**Clayey SAND (SC)** Medium dense, moist, light olive gray with yellow brown mottling, fine sand	33			
7						**Lean CLAY (CL)** Stiff, moist, dark olive brown, minor fine sand				
8	7	620 kPa 1655 kPa				Greenish gray with rust staining				LL=32 PI=17 Su=54 kPa
9	8	4	95			**Sandy lean CLAY (CL)** Medium stiff, moist, olive brown with some gray mottling, medium plasticity, fine sand	26			
10						Dark olive brown with gray mottling				
11	9	10	75-120				23	15.9	59	
12	10	11	30-120			**Sandy lean CLAY (CL)** Medium stiff, very dark gray with dark olive brown stains, abundant fine sand	25	15.5	36	
13	11	11	75			**Silty SAND (SM)** Loose, very dark gray, fine to medium sand, zones of poorly graded sand (SP)	25	16.1	80	
14						**Lean CLAY (CL) with sand** Medium stiff, dark gray, medium plasticity, some fine sand BOTTOM OF BORING AT 13.7 METERS				
15										

Station: 16+260 (meters)   Offset: -11 (meters:positive=east)   (596861.56/1874220.13)

Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-11

Date Drilled: 8/26/96
Type of Boring: 152 mm Solid Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 14.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						241 mm Asphalt Concrete over Well-graded SAND (SW) FILL - Olive gray				
1	1	27	>430			**Clayey SAND (SC) FILL with gravel** Medium dense, moist, yellow brown, fine to coarse sand and gravel	6	15.8		
						FILL				
2	2	24	>430			**Well Graded SAND (SW) FILL** Medium dense, moist, olive gray, fine to coarse sand and minor gravel	8	16.7		
						Lean CLAY (CL) with sand Hard, moist, olive brown, some fine sand, minor coarse sand, some fine to coarse gravel				
3	3	19	>430			**Fat CLAY (CH)** Hard, very dark gray with black and gray mottling and yellowish brown and gray stains ▽	20			
4										
5	4	8	145-165			**Sandy Silty CLAY (CL-ML)** Medium stiff, moist, dark gray with brown mottling and yellowish brown stains, fine sand	29	14.9	86	+#4=0 -#200=51%
6	5	5	120			**Lean CLAY (CL) with sand** Soft to medium stiff, dark gray with dark yellowish brown stains, fine sand, roots-like organic matter (dark color)	28	15.0	59	
7						**Fat CLAY (CH)** Very stiff, moist, olive brown, some fine sand				
8	6	11	215-285				26	15.3	224	
						BOTTOM OF BORING AT 8.1 METERS				
9										
10										
11										
12										
13										
14										
15										

Station: 16+353 (meters) Offset: -69 (meters:positive=east) (596751.88/1874216.97)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-12

Date Drilled: 8/26/96
Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Type of Boring: 152 mm Solid Flight Auger
Hammer/drop: 623 N/760 mm
Surface Elevation: 14.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
0						**89 mm Asphalt Concrete**				
	1	21	>430			**Fat CLAY (CH) FILL** Hard, moist, olive with dark olive gray mottling and olive yellow stains and some dark stains, some fine to coarse sand	16	17.4	496	
1	2	23	310			FILL	22	15.3	142	
	3	10	190			**Clayey SAND (SC)** Medium dense, moist, dark olive brown, fine sand, poorly graded, loose from 1.5 to 2.1 meters	25	15.0		
2						**Fat CLAY (CH)**				
3	4	20	240			Stiff, moist, dark olive gray with olive yellow stains, trace coarse sand, trace silt Very stiff, very dark olive gray with olive stains also light gray soil color (varies)	42	12.4	215	LL=92 PI=56
4										
5	5	9	120			Stiff, black with grayish brown stains, trace organic matter, faint organic odor	30	14.1	115	
6	6	10	120			**Clayey SAND (SC)** Loose, moist, gray with olive mottling, fine sand, trace fine gravel	23	15.9		
7	7	17	240			**Lean CLAY (CL) with sand** Very stiff, moist, dark olive gray, some fine sand, trace fine gravel, some voids	21			
8						BOTTOM OF BORING AT 8.1 METERS				

Station: 16+287 (meters)
Offset: -70 (meters:positive=east)
(596807.98/1874182.77)

Project: 95-973017NB.00
URS Greiner Woodward Clyde
Sheet 1 of 1
Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-13

Date Drilled: 8/28/96
Type of Boring: 140 mm Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 14.0 meters (approx.)

Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	15	285		21			
2	11	165-190		18	14.0		
3	14	240		31	12.8	170	
4	17	165-190		37	12.5	133	
5	6	75-95		51	11.1	81	
6	690 kPa 3445 kPa						
7	24			10			

MATERIAL DESCRIPTION

152 mm Asphalt Concrete over 152 mm Aggregate Base over 152 mm Sandy lean CLAY (CL)
FILL

Lean CLAY (CL)
Very stiff, moist, olive with red yellow stains, some fine to coarse sand, trace fine gravel, medium plasticity

Clayey SAND (SC)
Medium dense, moist, dark brown, fine sand, poorly graded

Fat CLAY (CH)
Very stiff, moist, dark olive brown with trace black organic matter and abundant yellow brown stains, trace fine sand
Stiff, dark gray with dark yellow brown and black stains

Silty SAND (SM)
Loose, moist, dark olive brown with gray mottling, medium grained, poorly graded

Fat CLAY (CH)
Medium stiff, moist, black with yellow brown and red brown stains, trace organic matter, trace sand and gravel, blocky texture

Sandy lean CLAY (CL)
Soft, moist, dark olive gray, medium plasticity

Poorly graded SAND (SP)
Medium dense, olive gray, medium to coarse sand, trace gravel, approximately 5% fines

Well-graded GRAVEL (GW)
Medium dense, wet, dark olive, fine to coarse gravel and sand

BOTTOM OF BORING AT 8.1 METERS

Station: 16+232 (meters) Offset: -74 (meters:positive=east) (596853.37/1874152.06)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

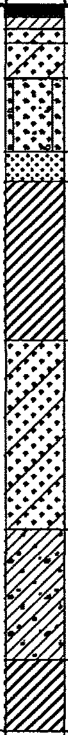
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-14

Date Drilled: 8/28/96
Type of Boring: 140 mm Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE

Surface Elevation: 13.4 meters (approx.)



Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	16	265		**102 mm Asphalt Concrete over 102 mm Clay over 203 mm Clayey SAND - FILL** FILL	14	14.4		
2	8			**Clayey SAND (SC)** Medium dense, moist, dark olive brown, fine sand, poorly graded	17	14.5		
3	9			**Silty SAND (SM)** Loose, moist, dark olive brown with dark olive gray mottling	22	13.4		
				Poorly graded SAND (SP) Loose, moist, olive brown with olive gray stains, trace fines				
4	9	120-145		**Fat CLAY (CH)** Stiff, moist, very dark gray with dark yellow brown mottling, trace fine sand	44 27	12.4 14.6	155	
5	4	45		**Sandy lean CLAY (CL)** Soft, moist, gray with dark grayish brown mottling, trace gravel, fine sand ▽ Light olive brown with abundant yellowish brown mottling	30	14.7	12	+#4=0 -#200=57%
6	5	45-75		**Sandy lean CLAY (CL)** Medium stiff, moist, light olive brown with yellowish brown mottles and gray stains, blocky texture, medium plasticity, some fine sand	28	14.7	44	
7	11	120-165		**Fat CLAY (CH)** Stiff, moist, light olive brown with yellow brown stains and some gray mottling, some fine sand	25	15.6	117	
				BOTTOM OF BORING AT 7.6 METERS				

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 16+259 (meters) Offset: -118 (meters:positive=east) (596808.61/1874127.61)

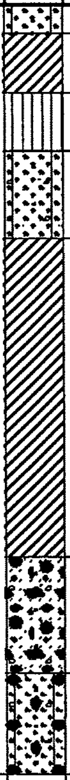
Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-15

Date Drilled: 8/26/96
Type of Boring: 152 mm Solid Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 13.8 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	15	>430		**Sandy SILT (SM) FILL** Moist, brown FILL	21	15.7	234	
1	2	7	>430		**Fat CLAY (CH)** Very stiff, moist, dark grayish brown with some yellow brown mottling, some sand	24	14.5		
2	3	8	265		**SILT (ML)** Loose, moist, dark olive brown, some fine sand	16	14.8		
					Silty SAND (SM) Loose, moist, olive brown, fine sand, poorly graded				
3	4	14	165		**Fat CLAY (CH)** Stiff, moist, olive brown, minor fine sand	27	14.9	135	
5	5	13	165		Black with dark olive brown mottling	33	14.0	168	
6	6	39			**Well-graded GRAVEL (GW) with sand** Dense, wet, dark gray brown with olive brown stains, fine to coarse sand and gravel	10	20.0		
7	7	10			**Silty SAND (SM) with gravel** Loose, wet, olive gray, some fine to coarse gravel, fine to coarse sand				+#4=38% -#200=23%
8					BOTTOM OF BORING AT 8.1 METERS				

Station: 16+291 (meters) Offset: 55 (meters:positive=east) (596867.55/1874292.97)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-16

Date Drilled: 8/26/96
Type of Boring: 152 mm Solid Flight Auger
Hammer/drop: 623 N/760 mm

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 13.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Loose Soil with Organics (OL)				
	1	15	>430			**Sandy lean CLAY (CL) FILL** Hard, moist, brown	14	17.3		LL=36 PI=16
1	2	16	360			**Lean CLAY (CL) FILL** Hard, moist, dark olive brown with very dark brown mottling, trace fine to coarse sand	17	15.4		
2	3	15	265-310			FILL	29	13.9		
						Fat CLAY (CH) Very stiff, moist, dark olive brown with some dark gray and dark yellow brown staining, some fine sand				
3	4	9	75			**Fat CLAY (CH)** Medium stiff, moist, black, minor fine sand ▼	28	14.9	57	
4										
5	5	13				**Poorly graded SAND (SP)** ▽ Medium dense, wet, very dark gray, trace fine gravel and coarse sand	19	15.6		
6	6	17				Dark brown				+#4=5% -#200=8%
7										
8	7	7				**Poorly graded SAND (SP-SM) with silt** Loose, wet, dark olive brown, trace fine gravel	22			+#4=7% -#200=7%
						BOTTOM OF BORING AT 8.1 METERS				
9										
10										
11										
12										
13										
14										
15										

Station: 16+280 (meters)   Offset: -89 (meters:positive=east)   (596804.58/1874163.10)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-7

Date Drilled: 8/22/96
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 15.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	17	>430			**Fat CLAY (CH) FILL** Stiff, moist, dark gray with dark yellow brown staining, trace fine sand, blocky texture	21			
1	2	24	>430			**Lean CLAY (CL) FILL** Hard to very stiff, moist, gray with abundant dark yellow brown staining	18			LL=38 PI=17
2	3	31	>430			**Fat CLAY (CH) FILL** Hard, moist, gray and dark brown gray with dark yellow brown staining FILL	25	15.0	291	
3	4	17	265			**Fat CLAY (CH)** Medium stiff, moist, dark brown gray with minor dark yellow brown staining, trace rootlets and fine sand	34 61	13.6 10.8	91 91	
4 5	5	7	120				46 45	12.0 12.0	69 62	
6						**Sandy SILT (ML)** Soft, wet, dark brown gray, poorly graded fine sand, slow dilatency				
7	6	8	120			**Fat CLAY (CH)** Medium stiff, moist, black and dark gray with trace dark yellow brown staining, slight organic odor	44			
8	7	8	145			**Sandy lean CLAY (CL)** Medium stiff, moist, pale olive with trace strong brown staining, fine sand, medium plasticity	28	14.8	90	
9						**Silty SAND (SM)** Loose, moist, olive with some dark yellow brown staining				
10	8	9	75			**Sandy lean CLAY (CL)** Medium stiff, moist, pale olive with some dark yellow brown staining, medium plasticity, fine sand	38	14.1	71	
11	9	17	145			**Silty SAND (SM)** Medium dense, moist, pale olive, fine sand	27	14.9		Non-Plastic
12	10	30				**Well-graded SAND (SW-SM) with gravel and silt** Dense, wet, dark brown, medium to coarse sand, fine to coarse gravel Well-graded SAND (SW-SM)...(Continued)				+#4=35% -#200=8%
13	11	33					13			
14 15						BOTTOM OF BORING AT 13.7 METERS NOTE: No groundwater reading was taken due to the presence of drilling fluid				

Station: 16+362 (meters)   Offset: -39 (meters:positive=east)   (596758.67/1874247.40)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-8

Date Drilled: 8/22/96
Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm
Surface Elevation: 15.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	17	>430			**Sandy lean CLAY (CL) FILL mixed with Sandy fat CLAY (CH) FILL** Stiff, moist, dark gray brown and dark brown with some dark yellow brown staining, blocky texture	18			
1	2	15	>430				30	13.0		
						Fat CLAY (CH) FILL Stiff, moist, dark gray brown and dark brown with some dark yellow brown staining, blocky texture				
	3	18	>430				23			
2						FILL				
						Sandy SILT (ML) Medium dense, moist, yellow brown, fine sand				
3	4	18	385				26			
						Fat CLAY with Sand (CH) Very stiff, moist, dark gray with dark yellow brown staining, minor fine sand				
4										
						Sandy lean CLAY (CL) Medium stiff, moist, gray with dark yellow brown staining, fine sand				
5	5	11					29 27	14.9 14.7	56	
						Fat CLAY (CH) Stiff, moist, black				
6						**Sandy lean CLAY (CL)** ▽ Stiff, moist, pale olive with minor yellow brown staining, fine sand, medium plasticity				
	6	12	120				49	12.6	130	
7										
8	7	1035 kPa 1725 kPa				Medium to stiff				
9										
	8	28				**Poorly graded SAND (SP-SM) with silt** Medium dense, moist, olive, fine sand				
						With dark yellow brown staining				
10	9	16					23			
11										
						Well-graded SAND (SW) with gravel Dense, wet, olive gray, fine to coarse sand and gravel				
12	10	31					10			
						Well-graded SAND (SW)...(Continued)				
13										
	11	13	145			**Sandy lean CLAY (CL)** Stiff, moist, olive with yellow staining	10			
14						BOTTOM OF BORING AT 12.2 METERS				
15										

Station: 16+318 (meters)
Offset: -40 (meters:positive=east)
(596796.80/1874224.06)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SDB-9

Date Drilled: 8/23/96
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 963010NA - SKYPORT DRIVE BRIDGE
Surface Elevation: 15.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	14	>430			**Fat CLAY (CH) FILL** Hard, moist, dark olive gray with dark yellow brown stains, traces of fine sand	24			
1										
	2	29	>430			FILL	45	11.6		
2						**Lean CLAY (CL) with sand** Very stiff, moist, dark brown with dark olive and dark yellow brown staining, fine sand	22	15.4		
3						**Silty SAND (SM)** Medium dense, moist, light olive brown, fine sand				
	3	24								
4						**Fat CLAY (CH)** Very stiff, moist, grayish brown with dark yellow brown staining, blocky texture				
5	4	9	95			**Fat CLAY (CH)** Medium stiff, dark olive brown with dark gray and dark yellow brown mottling and minor black staining	46	11.4	52	
6						Dry to 5.0 meters, then introduced drilling mud for rotary wash Soft, black				
	5	825 kPa 2070 kPa				Dark olive with dark mottling and yellow brown staining, trace sand				Su=85 kPa
7						**Well-graded SAND (SW) - Medium dense, wet, dark gray brown**				
8	6	25				**Well-graded GRAVEL (GW) with sand** Medium dense, dark gray brown, coarse gravel	12			
						Well-graded SAND (SW) with gravel Medium dense, wet, dark gray brown				
9	7	26				**Well-graded GRAVEL (GW) with sand** Medium dense, wet, dark brown, medium to coarse sand, coarse gravel				+#4=54% -#200=3%
10						**Sandy Lean Clay (CL)** Medium stiff, moist, olive brown with dark gray mottling, fine sand				
11	8	8	95			Calcareous nodules	23	15.9	42	+#4=9% -#200=53%
12						**Clayey SAND (SC)** Medium dense, moist, dark gray, fine sand				
	9	13	75				21	16.8	84	+#4=0 -#200=49%
13	10	11	120			**Lean CLAY (CL) with sand** Stiff, moist, dark gray with dark grayish brown staining, fine sand	26	15.3	102	
14						BOTTOM OF BORING AT 12.2 METERS				
15										

Station: 16+278 (meters) Offset: -13 (meters:positive=east) (596845.34/1874227.65)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-1

Date Drilled: 1/17/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 11.9 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	25				**SANDY CLAY (CL-SC) FILL** Well compacted, damp, light gray-brown	9	17.7		
2						**SANDY CLAY (CL)** Damp, light gray				
	2	7				**SILTY SAND (SM)** Loose, moist, brown				
3						1/20/84 ▼				
4	3	9				**CLAYEY SILT (CL-ML)** Soft to medium, saturated, brown, with fine sand				
5						**SILTY CLAY (CL)** Soft, brown, with calcareous nodules				
	4	4					27	14.8	34	LL=40 PI=22
6										
7	5	80				**SILTY SAND (SW-SM)** Very dense, gray-brown and red-brown				
8						**SILTY CLAY (CL)** Stiff, gray				
	6	p								
9	7	18				**CLAYEY SILT (CL-ML)** Medium, gray, with some fine sand	29	15.1	93	
10										
	8	13				Becoming less silty, gray-brown	24	16.3	63	
11										
12	9	10				**SILTY SAND (SM-ML)** Loose, gray-brown				
13						**SILTY CLAY (CL-CH)** Very stiff, gray and gray brown mottled				
	10	23					26	15.4	228	
14										
15										

Station: 14+881 (meters) Offset: 37 (meters:positive=east) (597833.40/1873273.18)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-1

(continued)

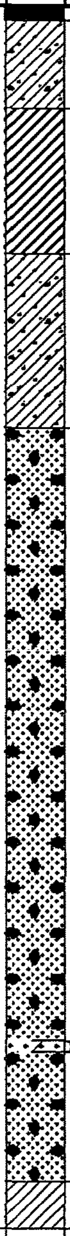
Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	21				Becoming stiff	22	16.5	127	
16	12	49								
						SILTY SAND (SM) Dense, brown, fine to medium grained				
17										
18										
19						**GRAVELLY SAND (SW-SM)** Very dense, brown				
	13	58								
20										
21										
22	14	31				**CLAYEY SILT - SILTY CLAY (CL-ML)** Stiff, light brown and light gray	30	14.8	148	
23										
24										
	15	30								
25						BOTTOM OF BORING AT 24.5 METERS				
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-11

Date Drilled: 2/2/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 11.7 meters (approx.)



Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
				ASPHALT PAVEMENT				
				SANDY CLAY (CL) Very stiff, moist, dark brown and dark gray mottled				
1	18				27	14.5	197	
				SILTY CLAY (CH) Stiff, damp, dark gray with some brown mottling, with trace of fine sand				
2	13				43	11.6	148	
				SANDY CLAY (CL) Medium, saturated, orange-brown and light gray mottled				
3	6				25	15.6	66	
				GRAVELLY SAND (SP) Medium dense, brown				
4	26							
5	29							+#4=39% -#200=4%
6	27							
7	46							
				CLAYEY SAND Lens				
8	58							
				SILTY CLAY (CL) Medium, light brown and light gray mottled				
				BOTTOM OF BORING AT 12.8 METERS				

Station: 15+368 (meters) Offset: -104 (meters:positive=east) (597415.57/1873516.86)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-13

Date Drilled: 2/1/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 11.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					■	**ASPHALT PAVEMENT**				
					▨	**SILTY CLAY (CH)** Hard, moist, dark brown-gray				
1	1	22					23	15.4	469	
					▨	**SILTY CLAY (CL)** Stiff, moist, gray and brown mottled				
2	2	12					34	13.2	169	
						Medium, with some organics				
3	3	6					41	12.1	89	
4					▥	**CLAYEY SILT (CL-ML)** Soft, saturated, light blue-gray				
5	4	8					25	15.6	37	
6					░	**SILTY SAND (SP-SM)** Medium dense, green-gray				
	5	10								
					▥	**CLAYEY SILT (CL-ML)** Soft, gray				
7						Clay content increasing				
					▨	**SILTY CLAY (CL)** Medium, gray mottled				
8	6	13					28	14.8	63	
9					░	**SILTY SAND (SP-SM)** Medium dense, gray				
	7	17					25	15.9	51	
10					▨	**SILTY CLAY (CL)** Soft to medium, gray				
					▨	**SILTY CLAY (CL)** Medium, gray mottled with organics				
11	8	9					25	15.7	82	
12										
					▨	**SILTY CLAY (CL)** Stiff, gray and brown mottled				
	9	15					26	15.1	102	
13					▥	**SANDY SILT (ML) to SAND (SP)** Medium dense to dense, light brown, fine-grained sand				
14	10	30								
15										

Station: 15+474 (meters)
Offset: -91 (meters:positive=east)
(597335.67/1873588.00)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-13
(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	41				**SAND (SP)** Medium dense, reddish brown, fine-grained				
						GRAVELLY SAND (SW) Dense, brown				
16	12	35								
17										
						Gravel becoming coarser				
18										
19										
20										
21						Lost drilling fluid				
						SILTY CLAY (CL) Light brown, with trace of fine sand				
22						BOTTOM OF BORING AT 21.8 METERS				
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-16

Date Drilled: 2/3/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 12.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						ASPHALT PAVEMENT				
1	1	12				**SILTY CLAY (CL)** Stiff to very stiff, damp, dark brown with some organic brown mottling	27	14.6	195	
2	2	10				**SILTY CLAY (CL)** Stiff, moist, gray and light brown mottled	41	12.4		
						2/14/84 ▼				
3	3	6								
4										
						SILTY CLAY (CL) Soft, gray, with sand lenses				
5	4	26				**SAND (SP)** Medium dense, brown	27	15.1	45	
6	5	10				**SANDY CLAY (CL)** Medium to stiff, blue gray	23	16.2	97	
7						**SILTY CLAY (CL)** Medium, gray				
8	6	17				**CLAYEY SILT (CL-ML)** Medium, light brown, with fine sand	29	14.8	62	
9	7	30				**SAND (SP)** Medium dense, brown, fine to medium-grained, with trace of fine gravel				
10						**SILTY CLAY (CL)** Medium, light gray, with trace of organics and fine gravel				
11	8	11					24	16.2	74	
						Sandy layer				
12	9	16				Becoming stiff, light gray and brown-gray mottled	31	14.5	106	
13										
14	10	34				**CLAYEY SILT (CL-ML)** Very stiff, light brown with red-brown	25	16.0	248	
15										

Station: 15+549 (meters) Offset: -95 (meters:positive=east) (597271.36/1873626.82)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-16

(continued)

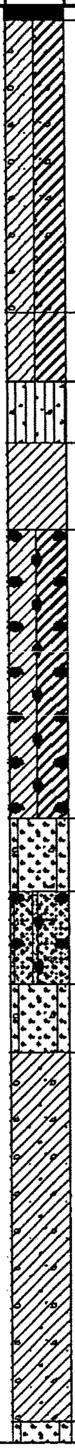
Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						streaks, with some fine sand				
	11	38				**GRAVELLY SAND (SP-SM)** Dense, brown				
16						BOTTOM OF BORING AT 15.7 METERS				
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-18

Date Drilled: 2/6/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 12.5 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					ASPHALT PAVEMENT				
					SILTY CLAY (CL-CH) Very stiff, moist, gray-brown, with some coarse sand				
1	1	23				33	13.4		
					Becoming stiff, mottled gray with brown				
	2	23				29	14.3	113	
	3	4			**SILTY CLAY (CL-CH)** Medium, saturated, dark brown ▼ 1/2 HOUR	39	12.4		
					SANDY SILT (ML) Loose to medium dense, light brown				
	4	p			**SILTY CLAY (CL)** Stiff, gray and brown				
					SILTY CLAY (CL-CH) Medium, light gray, with some gravel				
	5	6			Becoming soft, gray	25	15.9	30	
	6	p			Becoming medium				
					SILTY SAND (SM) Medium dense, gray, fine grained				
	7	30			**GRAVELLY SAND (SW-SM)** Medium dense to dense, gray				
					SILTY SAND (SM) Medium dense, gray, fine grained				
11	8	13			**SILTY CLAY (CL)** Medium, gray, with some fine sand	26	15.1	89	
	9	14				25	15.6	78	
14	10	p				23	16.2	137	
					SILTY CLAY (CL)..continued				
15									

Station: 15+667 (meters)　Offset: -91 (meters:positive=east)　(597168.20/1873718.49)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-18

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	51				**SILTY SAND (SM)** Dense, gray and brown				
16						**GRAVELLY SAND (SW-SM)** Very dense, brown				
						SILTY CLAY (CL) Medium, light brown				
17	12	60				**SAND (SP)** Very dense, brown, fine to medium grained				
18	13	44				**GRAVELLY SAND (SW-SM)** Very dense, brown				
19						**SILTY CLAY (CL)**				
20						BOTTOM OF BORING AT 19.8 METERS				
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-19

Date Drilled: 2/8/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 13.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	11				**SANDY CLAY (CL-SC) FILL** Moderately compacted, damp, dark brown and orange-brown mottled, with alternating layers of Clayey Sand (FILL)	28	13.8		
2	2	9				**SANDY CLAY (CL-SC)** Medium, damp, dark brown	20	16.3	68	
3	3	11				**SILTY CLAY (CL)** Stiff, moist, light brown and gray mottled	36	13.0	102	
4										
5	4	13				**SILTY CLAY (CH)** Very stiff, moist, dark gray with orange-brown spots	33	13.2	124	
						SILTY CLAY (CL-CH) Stiff, moist, light brown and gray mottled with red-brown spots				
6	5	6				**SANDY CLAY (CL)** Soft, moist, light brown and white mottled, with calcareous nodules	22	16.5	40	
7						Medium				
8	6	7				**SILTY CLAY (CL)** Medium, damp, blue-gray, with organic material and some fine sand	25	16.0	55	
9	7	15				**SILTY SAND (SM)** Medium dense, saturated, light gray-brown				
10						Becoming less silty, coarser (SP)				
11	8	37				**SANDY GRAVEL (GW-SW)** Dense, brown				
12	9	6				**SILTY SAND (SM-SC)** Loose, gray, fine to medium gray				-#200=46%
13	10	p								
14	11	14				**SILTY CLAY (CL-CH)** Medium to stiff, light brown and green-gray mottled	27	15.6	95	
15						**SILTY CLAY (CL-CH)... continued**				

Station: 15+666 (meters)
Offset: 53 (meters:positive=east)
(597274.53/1873815.16)

Project: 95-973017NB.00
URS Greiner Woodward Clyde
Sheet 1 of 2
Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-19

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	12	13				**CLAYEY SILT (CL-ML)** Soft, green-gray, with fine sand	23	16.0	45	
17	13	19				**SILTY CLAY (CL)** Medium to stiff, gray and light brown mottled, with trace of fine sand, organic material, and calcareous nodules	25	16.0	123	
	14	15					25	16.0	74	
20	15	20					19	17.4	127	
21						**SANDY SILT (ML)** Medium dense, gray				
	16	18				**SILTY CLAY (CL)** Stiff, light brown and gray mottled, with some rock fragments and fine sand	22	16.3	114	
23	17	28								
	18	29				**SANDY CLAY (CL)** Stiff, gray				

BOTTOM OF BORING AT 24.8 METERS

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-2

Date Drilled: 1/17/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 11.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						ASPHALT PAVEMENT				
						SILTY CLAY (CL) FILL Moderately compacted, moist, light brown-gray				
1	1	12				(FILL)	24	15.2	141	
						CLAYEY SILT (CL-ML) Stiff, damp, red-brown, with some fine sand				
2						1/20/84				
	2	8					19	16.8	166	
3										
						SILTY CLAY (CH) Stiff, dark gray				
4	3	12					32	13.7	122	LL=80 PI=55
5										
	4	19				**SILTY CLAY (CL-CH)** Medium, light brown-gray	22	16.2	81	
6										
7	5	12				Becoming very stiff (CL)	23	15.9	200	
8										
	6	13				**CLAYEY SAND (SC)** Medium dense, light brown				
9										
						SILTY CLAY (CL) Soft, gray, with layers of Sandy Clay (CL)				
10	7	15					21	16.3	41	
11										
	8	p					25	15.7	78	
						SILTY CLAY (CL) Medium, light gray-brown, with calcareous nodules and some fine sand				
12										
						SILTY CLAY (CL) Stiff, light gray-brown mottled				
13	9	15					24	16.0	136	
14										
	10	23				With traces of fine sand	20	16.3	128	
15										

Station: 14+883 (meters) Offset: -52 (meters:positive=east) (597758.00/1873226.25)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-2

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨					
16					●	**GRAVELLY SAND (SW-SM)** Very dense, brown				
17	11	52			●					
18					▨	**SILTY CLAY (CL)** Medium, light gray-brown with some fine sand				
19	12	13			▨		23	16.0	66	
20					●	**GRAVELLY SAND (SW)**				
21					▨	**SILTY CLAY (CL)** Medium, gray with some fine sand				
	13	16			▨					
22	14	18			▨		23	16.2	80	
	15	25			▨					
23					▨					
24					▨	Becoming very stiff (CL-CH), with silty fine sand lens at 24.1 meters	21	16.8	252	
						BOTTOM OF BORING AT 24.4 METERS				
25										
26										
27										
28										
29										
30										
31										

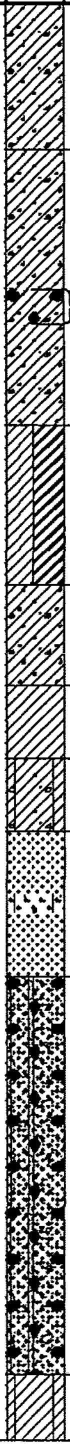
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-20

Date Drilled: 2/7/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 13.9 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	22			**SANDY CLAY (CL) FILL** Well compacted, damp, brown mottled	15	15.7	455	
2	2	11			**SANDY CLAY (CL)** Medium, damp, brown mottled				
	3	10							
3	4	8			With some rock fragments to 25 mm	23	14.1	66	
4									
5	5	8			**SILTY CLAY (CL-CH)** Stiff, damp, brown and gray mottled, with trace of fine brown sand	29	14.1	140	
6	6	8			**SANDY CLAY (CL)** Soft to medium, moist, tan and orange-brown mottled, with calcareous nodules	21	17.0	45	
7					**SILTY CLAY (CL)** Stiff, moist, gray with pockets of orange sand, and with some organic material				
8	7	15			**CLAYEY SILT (CL-ML)** Medium, saturated, gray with rust colored streaks, with fine sand	21	16.7	152	
9	8	27			**SAND (SP)** Medium dense, light brown, Sandy Silt lens at 9.5 meters Gray				
10									
11	9	67			**GRAVELLY SAND (SW-SM)** Very dense, brown-gray				
12	10	52							
13									
14	11	48							
15					**CLAYEY SILT (CL-ML)** Medium, blue-gray				

Station: 15+705 (meters)   Offset: 45 (meters:positive=east)   (597242.23/1873838.69)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-20
(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	12	37				**GRAVELLY SAND (SW)** Dense, brown				
16										
						CLAYEY SILT (CL-ML) Soft, light brown and gray mottled, with fine sand				
17	13	10				**SILTY CLAY (CL)** Medium, light brown and gray mottled, with pockets of red-brown silt	26	15.7	66	
18										
	14	19					26	15.4	80	
19										
20	15	21					21	16.8	140	
21						**SILTY CLAY (CL)** Medium, brown-gray				
	16	17					25	15.9	87	
22										
						SANDY CLAY (CL) Stiff, gray and light brown mottled, with trace of fine sand				
23	17	28					19	17.4	167	
24						**SANDY GRAVEL (GW)** Medium dense, brown and gray				
	18	29								
25						BOTTOM OF BORING AT 24.8 METERS				
26										
27										
28										
29										
30										
31										

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 2 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-21

Date Drilled: 2/9/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 13.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	11				**SANDY CLAY (CL) FILL** Well compacted, damp, dark brown with orange and gray mottling (FILL)				
2	2	14				**SANDY CLAY (CL)** Very stiff, damp, dark brown	13	16.5	226	
3	3	17				**SILTY CLAY (CL-CH)** Very stiff, damp, gray mottled with orange-brown spots	26	15.4	269	
4 5 6	4	17				**SILTY CLAY (CH)** Stiff, moist, dark gray	37	12.9	149	
	5					**SILTY CLAY (CL-CH)** Stiff, moist, gray and brown mottled with orange-brown spots	48	11.3	114	
7	6	30				**SILTY SAND (SM)** Medium dense, saturated, light gray-brown, fine to medium grained				
8						**GRAVELLY SAND (SW-SM)** Dense, brown				
						SANDY CLAY (CL) Medium, brown-gray				
9 10	7	28				**SILTY SAND (SM)** Medium dense, light brown-gray, with some fine gravel				
11	8	15				**CLAYEY SILT (CL-ML)** Medium, brown, gray and orange mottled, with some fine sand, Gravel layer at 11 meters	22	16.5	91	
12						**SILTY SAND (SM)** Medium dense, gray				
13	9	15				**SILTY CLAY (CL)** Stiff, gray mottled	23	16.3	173	
14 15	10	21				Becoming more plastic	25	15.7	142	

Station: 15+624 (meters) Offset: -42 (meters:positive=east) (597236.22/1873719.05)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-21

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	23			**CLAYEY SILT (ML)** Soft, gray, with fine sand				
16					**SILTY CLAY (CL)** Stiff, gray mottled, with some fine sand	25	15.7	103	
17	12	30			**SANDY SILT (ML-SM)** Medium dense, gray and light brown mottled				
18					**SILTY CLAY (CL)** Stiff, tan with orange-brown mottling				
	13	27							
19									
20	14	20				24	15.7	108	
21					**SILTY CLAY (CL)** Medium to stiff, gray, with fine sand				
	15	20				23	16.2	63	
22									
23	16	25			Becoming dark gray, less sandy	23	16.2	98	
24									
	17	28			Silty Sand lens, very stiff	19	17.6	224	
25					BOTTOM OF BORING AT 24.8 METERS				
26									
27									
28									
29									
30									
31									

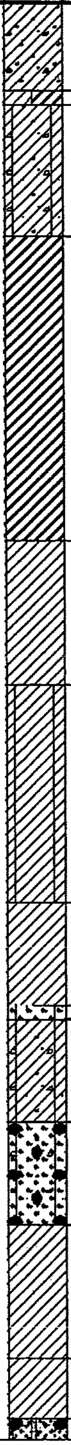
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-22

Date Drilled: 2/9/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 13.7 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	16				**SANDY CLAY (CL) FILL** Moderately compacted, damp, dark brown and dark gray with orange spots (FILL)	28	14.0		
2	2	12				**SILTY CLAY (CL-CH)** Very stiff, moist, dark gray and light brown mottled **SILTY CLAY to CLAYEY SILT (CL-ML)** Very stiff, damp, dark brown with fine sand	11	16.5	253	
3	3	18				**SILTY CLAY (CH)** Very stiff, moist, gray and light brown mottled	26	15.2	319	LL=74 PI=48
4										
5	4	12				Stiff	35	13.2	173	
6	5	8				**SILTY CLAY (CL)** Stiff, moist, green-gray with dark brown spots, with traces of fine sand and calcareous nodules	22	16.5	110	
7										
8	6	5				**SILTY CLAY to CLAYEY SILT (CL-ML)** Soft, saturated, blue-gray, with fine sand and organic material	26	15.6	40	
9	7	7				**SILTY CLAY (CL)** Soft, gray	27	15.2	42	
10						Sand lens (SM)				
11	8	9				**CLAYEY SILT (CL-ML)** Medium, gray mottled, with some fine sand and organic material	23	16.8	55	
12	9	21				**SILTY SAND (SM)** Medium dense, brown-gray, fine to medium grained with some fine gravel				
13						**SILTY CLAY (CL)** Stiff, gray, with trace of organic material				
14	10	22					27	15.1	152	
						SILTY CLAY (CL) Very stiff, light brown				
15										

Station: 15+721 (meters) Offset: -38 (meters:positive=east) (597170.25/1873795.02)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-22

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	39				**GRAVELLY SAND (SW-SM)** Dense, brown				
16										
17	12	44								
18						**SILTY SAND (SP-SM)** Dense, light brown				
	13	38								
						Sandy Clay lens				
19						**GRAVELLY SAND (SW)** Medium dense, light brown				
20	14	28								
21						**SILTY CLAY (CL-CH)** Stiff, gray and light brown mottled, with some fine sand				
	15	p					46	14.1	158	
22										
						SAND (SW-SM) Medium, brown and gray, with some gravel				
23						**SANDY CLAY (CL)** Stiff, gray				
24						BOTTOM OF BORING AT 24.1 METERS				
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-24

Date Drilled: 1/30/84	Remarks: From 16171X - SAN JOSE AIRPORT EXPANSION
Type of Boring: 124 mm Rotary Wash	
Hammer/drop: 623 N/760 mm	Surface Elevation: 9.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Disked to 0.3 meters				
						SANDY CLAY (CL) Soft, damp, brown, with organics				
1	1	8				**SILTY CLAY (CH)** Stiff, moist, dark gray	29	13.7	130	
						▽				
2	2	11				**SILTY CLAY (CL)** Medium, light gray and tan mottled, with some sand and calcareous nodules	22	15.9	78	
3	3	13				Grading to Sandy Clay (CL), stiff	21	16.5	158	
4										
5	4	8				Very sandy, medium	20	16.8	82	LL=28 PI=11
6						**SILTY CLAY (CL)** Medium, gray				
	5	9				Grading to Clayey Sand (SC)	18	17.4	58	
7						**GRAVELLY SAND (SW)** Medium dense, brown				
						SILTY CLAY (CL) Medium, gray				
8	6	12					25	15.6	68	
9						**SANDY CLAY (CL)** Medium, light brown-gray				
	7	10					19	17.3	78	
10						With sand lenses				
11	8	18				**SILTY CLAY (CL)** Soft to medium, light brown and light gray mottled, with some fine sand	22	16.5	47	
12										
	9	16								
13										
14	10	21				**CLAYEY SILT (ML)** Stiff, light brown, with some fine sand	25	15.6	103	
15						**GRAVELLY SAND (SW)** Dense, light brown				

Station: 14+659 (meters) Offset: -107 (meters:positive=east) (597911.59/1872989.29)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-24

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	51			▨					
16						BOTTOM OF BORING AT 15.7 METERS				
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 2 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-26

Date Drilled: 2/1/84
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171X - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 9.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SANDY CLAY (CL) Soft, damp, brown, with organic material				
1	1	18				**SILTY CLAY (CH)** Very stiff, moist, dark gray	32	13.7	206	
2	2	10				**SILTY CLAY (CL)** Medium, moist, light gray and tan mottled, with some sand ∇	22	16.3	51	
3	3	10				Increasing sand content, less plastic	22	16.3	68	
4	4	10				**SILTY CLAY (CL)** Medium, gray, with fine sand	24	15.9	68	
5										
6						**GRAVELLY SAND (SW)** Medium dense, black				
7	5	21				**SILTY CLAY (CL)** Medium, gray				
8						**SILTY SAND (SM)** Medium dense, gray				
9	6	27								
						BOTTOM OF BORING AT 9.1 METERS				
10										
11										
12										
13										
14										
15										

Station: 14+621 (meters)   Offset: -126 (meters:positive=east)   (597973.27/1872957.15)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-3

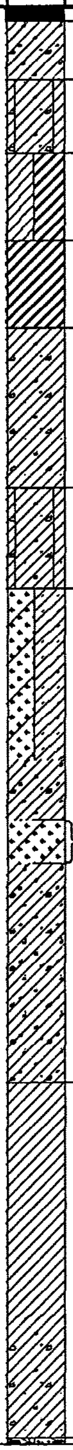
Date Drilled: 1/18/84

Type of Boring: 124 mm Rotary Wash

Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 11.0 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						ASPHALT PAVEMENT				
						SANDY CLAY (CL) FILL Moderately compacted, damp, dark brown (FILL)				
1	1	11								
						CLAYEY SILT (ML-CL) Medium, damp, brown, with fine sand				
2						**SILTY CLAY (CL-CH)** Very stiff, moist, mottled gray with orange-brown spots				
	2	10					31	13.7	152	
3						**SILTY CLAY (CH)** Stiff, moist, dark gray 1/20/84 ▼				
4	3	p				**SILTY CLAY (CL)** Medium, brown-gray mottled, with some fine sand	22	16.3	86	
5										
	4	9				**CLAYEY SILT (CL-ML)** Soft, gray, with some fine sand	25	16.0	46	
6						**SANDY CLAY (CL-SC)** Soft, gray				
7	5	7					21	16.7	26	
8						Stiff, higher silt content (CL)				
	6	p								
9						Clayey fine sand lens				
10	7	14					20	16.7	89	
11										
	8	13				**SILTY CLAY (CL)** Medium to stiff, light gray and light brown mottled with dark brown spots, calcareous nodules	21	16.2	144	
12										
13	9	13					31	13.8	91	
14						With fine sand, darker				
	10	p					25	15.9	96	
15										

Station: 15+010 (meters) Offset: -84 (meters:positive=east) (597662.26/1873315.20)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 2 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-3

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
16					▩	**GRAVELLY SAND (SW-SM)** Very dense, brown				
17	11	67			▩					
18					▨	**SILTY CLAY (CL)** Stiff, light brown and gray mottled, with fine sand				
19	12	23			▨		19	16.8	164	
20					▩	**GRAVELLY SAND (SW-SM)** Dense, brown				
21					▨	**SILTY CLAY (CL)** Stiff, gray				
	13	24			▨		21	16.3	169	
22					▨					
	14	19			▨					
23					▨					
24					▨					
						BOTTOM OF BORING AT 24.4 METERS				
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-31

Date Drilled: 1/27/84
Type of Boring: 152 mm Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171X - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 9.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨	Disked to 0.3 meters **SILTY CLAY (CH)** Stiff, moist, dark gray				
1	1	23			▨		32	13.7	187	
2	2	23			▨	**SANDY CLAY (CL)** Stiff, moist, light gray and tan mottled	22	16.3	189	
3	3	43			▨	▽				
						BOTTOM OF BORING AT 3.0 METERS				
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 14+689 (meters) Offset: -98 (meters:positive=east) (597870.30/1873017.42)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-33

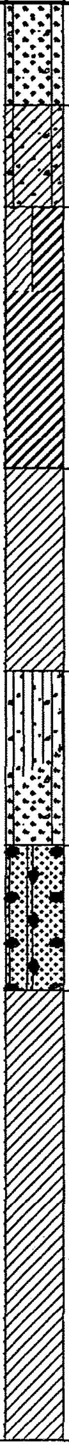
Date Drilled: 8/19/85

Type of Boring: 191 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 11.6 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	48			**SILTY SAND (SM) FILL** Moderately to well compacted, damp, brown, with some gravel				
1									
	2	--			**SANDY CLAY (CL-ML) FILL** Poorly compacted, moist, brown, with scattered fine gravel and small fragments of burnt wood	22	14.6		
2					(FILL)				
					SILTY CLAY (CL-CH) Stiff, moist, dark brown				
3									
	3	20			Slightly more plastic (CH), dark brown-gray	29	13.2	128	
4									
	4	20				23	14.9	147	
5					**SILTY CLAY (CL)** Stiff, moist, light gray-brown				
					15 HOURS				
6									
	5	15			Gray and brown mottled	27	14.9		
7									
					SANDY SILT (ML) Medium dense, blue-gray, slightly clayey				
	6	22							
8					Grades to Silty Sand (SM)	22	16.7	94	
9					**GRAVELLY SAND (SM-SP)** Medium dense, brown				
	7	10/ 150 mm							
10									
					SILTY CLAY (CL) Medium to stiff, blue-gray				
11	8	15				24	16.0	91	
12									
	9	26			With some gravelly zones	23	16.8	83	
13									
14	10	33				32	13.8	121	
					SILTY CLAY (CL)... continued				
15									

Station: 14+789 (meters)

Offset: -54 (meters:positive=east)

(597806.55/1873145.95)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-33

(continued)

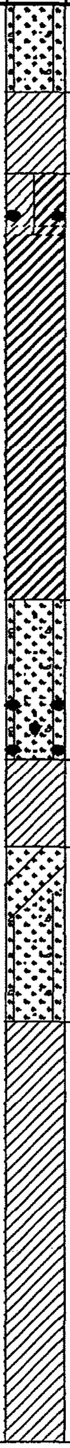
Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	36				More plastic (CL-CH)				
16						**SILTY SAND (SM-ML)** Medium dense, brown				
17	12	29					25	15.9	61	
18	13	90				**GRAVELLY SAND (SW)** Dense, brown				
19						**SANDY GRAVEL (GW)** Dense, brown, with gravel to 25 mm particle size				
20	14	75								
21	15	32				**SILTY CLAY (CL)** Stiff to very stiff, blue-gray	24	15.9		
22						Olive gray-brown				
23	16	36				With some sand	21	16.7	173	
24	17	47				Becoming sandy				
25						BOTTOM OF BORING AT 24.4 METERS				
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-34

Date Drilled: 8/19/85
Type of Boring: 191 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 11.9 meters (approx.)



Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	34			**SILTY SAND (SM) FILL** Moderately compacted, moist, brown, with scattered gravel and clay inclusions	10	17.6		
2	25			**SILTY CLAY (CL) FILL** Moderately compacted, moist, light gray-brown, slightly sandy (FILL)	24	15.1	113	
				SILTY CLAY (CL-CH) Stiff, moist, very dark brown, Silty Clay with gravel layer at 2.1 meters More plastic (CH), dark brown				
3	26				31	12.9	193	
4	28			Dark brown-gray and beige mottled	31	13.2	180	
				1 DAY				
5	24			**SILTY SAND (SM)** Medium dense, gray-brown	17	17.3		-#200=21%
				With some gravel				
6	13							
				SILTY CLAY (CL) Medium to stiff, blue-gray mottled				
				CLAYEY SAND (SC) Medium dense, gray; less clayey, grades to Silty Sand (SM) below 9.5 meters				
7	35							
8	20			**SILTY CLAY (CL)** Medium to stiff, blue-gray	27	14.8	82	
				With interbeds of sand				
9	8							
10	30			Very stiff	28	14.8	207	
				SILTY CLAY (CL)...continued				

Station: 14+783 (meters) Offset: 36 (meters:positive=east) (597885.47/1873190.03)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-34

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, KPa	Other Tests/ Remarks
	11	53								
16						**SILTY SAND (SM)** Dense, brown				
17	12	78				With scattered fine gravel				
18	13	51				Grades to Sand (SP-SM) with gravelly zones				
19										
20	14	65/ 125 mm								
21	15					**GRAVELLY SAND (SW-SM)** Very dense, brown, with gravel to 25 mm particle size				+#4=27% -#200=9%
22										
23	16	50/ 100 mm				Gravel size decreases				
24						BOTTOM OF BORING AT 24.4 METERS				
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-44

Date Drilled: 9/19/85

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 11.3 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						ROCK BASE				
1	1	26				**SANDY CLAY (CL)** Stiff, dry to damp, brown	8	17.0	180	
	2	34				**SILTY CLAY (CL)** Stiff, damp to moist, brown and gray mottled	16	16.7	373	
2						**SILTY CLAY (CL)** Very stiff, moist, brown, with some interbedded sand lenses				
3	3	16				**SILTY SAND (SM)** Medium dense, moist, brown				-#200=14%
4	4	16				**SILTY CLAY (CL)** Stiff, moist, light brown-gray with rust mottling, and with traces of fine sand	24	15.2	167	
5	5	7				Becoming more silty, medium ∇	24	15.2	53	
6	6	12				**SILTY CLAY (CL)** Medium, blue-gray with some orange-brown mottling, and with root traces	25	15.2	78	
7						Becoming more sandy				
8	7	16				**SANDY SILT (ML)** Medium dense, dark gray, slightly clayey				-#200=59%
9	8	22				**SILTY CLAY (CL)** Stiff, blue-gray	28	14.8	116	
10										
11	9	24								
						SILTY SAND (SM) Medium dense, blue-gray				
12	10	16				**SILTY CLAY (CL)** Medium, blue-gray, with traces of decomposed roots	27	15.7	46	
13										
14	11	18				**SILTY CLAY (CL)** Medium, gray and brown mottled, with fine sand	27	14.8	74	
15						**SILTY CLAY (CL)...continued**				

Station: 14+989 (meters)

Offset: -53 (meters:positive=east)

(597698.67/1873314.36)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

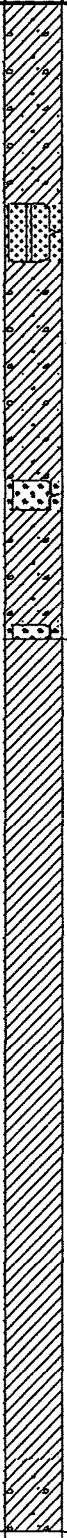
Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-44

(continued)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	12	22					23	16.0	87	
16										
17	13	25				Silty Sand (SM-SP), medium dense, brown and gray				
18	14	26				Becoming stiff	21	16.2	169	
19										
20	15	36				Silty Sand lens With traces of gravel				
21	16	32				Sand lens (SM) **SILTY CLAY (CL)** Stiff, gray				
22										
23	17	25								
24	18	27				Gray with brown mottling, and with occasional sand lenses				
25										
26	19	28								
27	20	36								
28										
29	21	50				Becoming very stiff				
30	22	85				With sand **SILTY CLAY (CL)...continued**				
31						BOTTOM OF BORING AT 30.9 METERS				

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-45

Date Drilled: 9/17/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 9.8 meters (approx.)

Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	23			11	16.3	244	
2	24			21	15.4	455	
3	11			25	15.6	68	
4	15			24	15.4	137	
5	16						
6	22						
7	19						
8	17						
9	26			23	15.7	221	

MATERIAL DESCRIPTION

SILTY CLAY (CL-ML) FILL
Moderately compacted, dry to damp, brown, with gravel, traces of roots, burnt wood and glass fragments
(FILL)

SILTY CLAY (CL)
Stiff, damp, brown, with traces of roots

SILTY CLAY (CL)
Hard, moist, gray, slightly sandy with some rust mottling and traces of decomposed roots

Becoming more sandy, medium to stiff

▽

SILTY SAND (SM)
Medium dense, brown

SILTY CLAY (CL)
Stiff, dark gray, with fine sand

Very stiff

BOTTOM OF BORING AT 11.1 METERS

Station: 15+249 (meters)   Offset: 55 (meters:positive=east)   (597603.46/1873581.71)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-46

Date Drilled: 9/17/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 9.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	20				**GRAVELLY CLAY (GC-CL) FILL** Moderately compacted, dry to damp, gray and brown mottled	14	16.5	278	
1										
	2	11				Becoming damp, less gravel, with traces of glass and brick fragments	13	17.4	123	
2						(FILL)				
						SILTY SAND (SM-SC) Loose, moist, dark rust brown, slightly clayey (Possible old channel backfill)				
	3	5								-#200=24%
3										
4	4	6				With clayey seams and fragments of saturated, decomposing wood				
	5	11				With lenses of gravel and clay ▽				
5										
	6	8								
						GRAVELLY SAND (SW) Dense, brown, with gravel to 13 mm particle size				
6										
	7	61								
7						**SILTY CLAY (CL)** Medium to stiff, gray, with traces of decomposed roots				
8	8	16					24	15.9	95	
9										
	9	64				**GRAVELLY SAND (SP-SM)** Very dense, brown,				
10										
11	10	57				Sandy gravel lens				
						BOTTOM OF BORING AT 11.1 METERS				
12										
13										
14										
15										

Station: 15+093 (meters)   Offset: 58 (meters:positive=east)   (597732.31/1873464.91)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-48

Date Drilled: 9/18/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 10.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	18				**SANDY CLAY (CL-SC)** Very stiff, dry to damp, brown, with some pebbly sand	9	16.0	223	
1						**SILTY CLAY (CL-CH)** Very stiff, moist, dark brown, with traces of charcoal				
	2	19					27	14.5	334	
2										
	3	9				Becoming medium, dark brown to black with some rust mottling	30	13.5	59	
3						▽				
						SILTY SAND (SP-SM) Medium dense, brown and gray				
4	4	30								
						With some gravelly zones, dense				
5	5	39								
6										
	6	38								
						SANDY CLAY (SC-CL) Medium, gray brown				
7	7	p								
						CLAYEY SAND (SC) Medium dense, gray	38	14.3	57	
8										
9										
	8	7				**SILTY SAND (SP-SM)** Loose, brown and gray				
10										
						With some clay lenses				
11	9	p				Becoming more gravelly (SP)	11	19.5		
12										
	10	26				**SILTY CLAY (CL)** Stiff, gray				
13	11	p					27	15.2		LL=39 PI=17
14										
						SILTY CLAY (CL)...continued				
15										

Station: 14+948 (meters) Offset: 119 (meters:positive=east) (597866.19/1873373.40)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-48

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	12	58				**SILTY SAND (SM)** Medium dense to dense, brown and gray				
16										
17	13	25				With some gravel				
						Becoming more clayey (SC-SM)				
18										
	14	38								
19										
						SILTY CLAY (CL) Very stiff, light gray-brown, with interbeds of sand				
20	15	32					23	15.9	220	
21										
	16	36				Silty Sand (SM-SP), medium dense				
22										
23	17	32/ 150 mm								
						With interbeds of sand and gravel				
24										
	18	50/ 150 mm								
						GRAVELLY SAND (SP-SM) Dense, brown and gray				
25										
						SILTY CLAY (CL) Very stiff, gray				
26	19	36								
27										
						CLAYEY SAND (SC-CL) Dense, light gray-brown				
	20	43								
28										
29	21	50/ 150 mm				Becoming very dense				
30										
						CLAYEY SAND (SC-CL)...continued				
	22	57								
31						BOTTOM OF BORING AT 30.9 METERS				

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-5

Date Drilled: 1/19/84

Type of Boring: 124 mm Rotary Wash

Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 11.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						ASPHALT PAVEMENT				
						SANDY CLAY (CL-SC) FILL Moderately compacted, damp, dark brown				
1	1	11					11	15.4	36	
						SILTY CLAY (CL-CH) Stiff to very stiff, moist, light gray and tan mottled				
2										
	2	11					36	12.6	113	
						SILTY CLAY (CH) Stiff, moist, dark gray				
3						**CLAYEY SAND (SC-CL)** Medium dense, saturated, tan ▼				
4	3	12					22	16.2	45	
						GRAVELLY SAND (SP-SM) Medium dense to dense, light brown				
5										
	4	30								+#4=23% -#200=9%
6										
						Less silty (SP)				
7	5	36								+#4=34% -#200=4%
8										
	6	28								
9						Silty Clay (CL) lens				
10	7	36								
						With gravel				
						SILTY CLAY (CL) Medium, light brown-gray, with trace of fine sand and calcareous nodules				
11										
	8	7					22	16.2	59	
12										
13	9	p					35	13.5	68	
14						**SILTY CLAY (CL)** Stiff, light and dark brown mottled				
15										

Station: 15+136 (meters) Offset: -106 (meters:positive=east) (597580.88/1873391.29)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-5

(continued)

Depth, Meters	Samples		Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	10	▧	32			▨	Very stiff	24	16.0	298	
							BOTTOM OF BORING AT 15.2 METERS				
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 2 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-50

Date Drilled: 9/17/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 10.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	20				**SANDY CLAY (CL)** Very stiff, dry to damp, brown, with traces of burnt wood fragments and rootlets	9	15.6	349	
1										
	2	16				**SILTY CLAY (CL)** Stiff, moist, dark brown, with traces of rootlets and decomposed wood fragments				
2										
	3	20				**SILTY CLAY (CL)** Hard, damp to moist, light gray-brown with some white mottling and calcareous nodules	15	17.3	576	
3										
4	4	22								
						Medium ▽				
5	5	9					22	16.0	72	LL=42 PI=20
6						**SILTY CLAY (CL)** Medium, gray				
	6	15				Silty Sand (SP-SM) lens				
7										
8	7	6				**SILTY SAND (SP-SM)** Loose, gray				
9	8	10								
10						**SILTY CLAY (CL)** Medium, gray				
11	9	32				Silty Sand (SM)				
						BOTTOM OF BORING AT 11.1 METERS				
12										
13										
14										
15										

Station: 14+769 (meters) Offset: 82 (meters:positive=east) (597932.07/1873202.69)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-51

Date Drilled: 9/18/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 10.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	38				**SILTY CLAY (CL) FILL** Moderately compacted, damp, brown, with sand and traces of burnt wood fragments	12	16.8	74	
1	2	35				Becoming more sandy, and with traces of brick fragments (FILL)	20			
2	3	18				**SILTY CLAY (CL-CH)** Very stiff, moist, dark brown, with some calcareous nodules ∇	27	14.1	226	
3	4	12				**SANDY CLAY (CL-SC)** Medium, light gray-brown				
5	5	15				**SILTY CLAY (CL)** Stiff to very stiff, gray-brown mottled	22	16.2	190	
6	6	43				**SILTY SAND (SP-SM)** Medium dense to dense, gray				
8	7	35				Silty Clay (CL) lens				
9	8	43				Becoming dense, with some fine gravel				
10						**SILTY CLAY (CL)** Stiff, brown-gray				
11	9	50/ 125 mm								
	10	22								
12						BOTTOM OF BORING AT 11.6 METERS				
13										
14										
15										

Station: 14+577 (meters) Offset: 47 (meters:positive=east) (598017.50/1873131.41)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

7/1/99 GUADM GUADM

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-52

Date Drilled: 9/20/85
Type of Boring: 191 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 6.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	4				**SILTY SAND (SM)** Very loose, damp, brown ▽				
1						**SILTY CLAY (CL)** Very soft, dark brown, with high organic material content, and lenses of loose sand				
2	2	4				**GRAVELLY SAND (SM)** Loose, dark gray, slightly clayey (Bed Load Materials)	22	16.3		
3	3	16				**SAND (SP)** Medium dense, dark gray, grades to Silty Sand (SM-ML) with depth				
4						**SILTY CLAY (CL)** Medium to stiff, blue-gray				
5										
6	4	12				With interbeds of Sand (SP)	23	16.2	27	
7										
8	5	49				Very stiff				
9	6	23				Stiff	27	15.4	140	
10										
11										
12	7	53				**GRAVELLY SAND (SP)** Dense, brown, with scattered gravel to 38 mm particle size				
13										
14						**GRAVELLY SAND (SP)...continued**				
15										

Station: 14+787 (meters) Offset: -14 (meters:positive=east) (597841.83/1873166.53)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-52

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	8	85				More sandy				
18						**SILTY CLAY (CL-CH)** Stiff, gray-brown				
	9	47					22	16.3	173	
19						BOTTOM OF BORING AT 18.8 METERS				

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 2 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-53

Date Drilled: 2/26/87

Type of Boring: 124 mm Rotary Wash

Hammer/drop: 623 N/760 mm ; * =1176 N/460 mm Downhole

Remarks: From 16171X - SAN JOSE AIRPORT EXPANSION - Island Bridge

Surface Elevation: 12.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY CLAY (CL) FILL Moderately compacted, moist, dark gray, with gravel				
	1	26*					18	16.7	227	
1										
	2	38*				Dark gray brown FILL				
2										
						SILTY CLAY (CL-CH) Stiff, dark gray-brown				
3										
	3	18*					31	14.0	128	
4										
						SILTY CLAY (CL) Stiff, light gray with some brown mottling, some calcareous nodules to 13 mm				
	4	15*								
5										
						SILTY SAND (SM) Medium dense, brown, with gravel to 13 mm				
6										
	5	26								
7										
	6	17								
8						Light gray-brown				
						SILTY CLAY (CL) Medium stiff to stiff, brown, with sand				
9										
						SILTY SAND (SM) and SAND (SP) Medium dense, dark gray, with some fine gravel				
	7	35								
10						**SILTY CLAY (CL)** Soft to medium, gray				
11	8	16*					22	16.0	39	
						With some sand				
12										
						Stiff, with some olive-brown mottling				
	9	39*								
13										
14	10	40*					21	17.0	152	
						SILTY CLAY (CL)...continued				
						CLAYEY SILTY VERY FINE SAND (SC) to				
15										

Station: 14+694 (meters) Offset: -30 (meters:positive=east) (597898.81/1873079.38)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-53

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	37*				**SILTY CLAY (CL)** Medium dense, gray				
16										
						SILTY SAND (SM) Dense, brown				
17	12	53*								
						GRAVELLY SAND (SM-SP) Very dense, dark brown, with gravels to 19 mm				
18										
	13	74								
19										
20	14	40								
21										
	15	24								
						SILTY CLAY (CL) Stiff, gray-brown with orange-brown mottling and black speckling				
22										
						↓ Stiff, gray				
23	16	34*								
							22	16.5	109	
24										
	17	52*				↓ Gray-brown	27	15.1	96	
25						↑ BOTTOM OF BORING AT 24.8 METERS				
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-54

Date Drilled: 2/26/87
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm ; * = 1176 N/460 mm Downhole

Remarks: From 16171X - SAN JOSE AIRPORT EXPANSION - Island Bridge

Surface Elevation: 6.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					SILTY CLAY (CL) Soft, moist, with roots				
1									
2	1	11			**SILTY SAND (SM)** Medium dense, gray-black				
					With some 13 mm				
	2	3			Loose				
3					**SANDY CLAY (CL) to CLAYEY SAND (SC)** Soft, light blue-gray Bed load materials				
4	3	17			**SILTY fine SAND (SM)** Medium dense, blue-gray, with trace to some clay and scattered gravel				-#200=35%
5	4	5			Gravel to 13 mm				
					SILTY CLAY (CL) Medium, blue-gray				
6	5	17*				23 24	16.2 16.0	64 88	
7					**SILTY SAND (SM)** Medium dense, blue-gray				
8	6	33*			**SILTY CLAY (CL)** Very stiff, gray with orange-brown mottling	25	15.7	221	
					Brown with gray mottling, siltier				
9	7	44*			Stiff, dark olive gray	22	16.5	162	
10									
11	8	32			**SILTY VERY FINE SAND (SM)** Dense, orange-brown				-#200=47%
12	9	35							
13					**SANDY GRAVEL (GW-GM)** Very dense, brown, with gravel to 25 mm				
14	10	70							
					SANDY GRAVEL (GW-GM)...continued				+#4=53% -#200=6%
15									

Station: 14+696 (meters) Offset: -7 (meters:positive=east) (597909.78/1873100.25)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT | **Log of Boring: SJIA-54** (continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	42			⁘	Dense				
16					⁘	Gravels to 38 mm				
17	12	33*			▨	**SILTY CLAY (CL)** Very stiff, brown with orange-brown mottling and black specks	29	14.6	201	
18	13	49			⁘	**SILTY MEDIUM TO COARSE SAND (SM)** Dense, dark brown, with gravel to 13 mm				
19					▨	**SILTY CLAY (CL)** Very stiff, dark olive-gray				
20	14	68*			▨		21	16.8	237	
						BOTTOM OF BORING AT 20.3 METERS				
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-55

Date Drilled: 3/2/87
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm ; * = 1176 N/460 mm Downhole
Remarks: From 16171X - SAN JOSE AIRPORT EXPANSION - Island Bridge
Surface Elevation: 11.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILTY SAND (SM) FILL Moderately compacted, moist, yellow-brown, with clay				
1	1	27*				**SILTY CLAY (CL) FILL** Moderately compacted, moist, gray-brown with orange-brown mottles, with some sand				
2	2	14*				**SILTY CLAY (CL) FILL** Moderately compacted, moist, brown with black and gray mottles FILL	23	15.7	182	
3	3	9*				**SILTY CLAY (CL) to CLAYEY SILT (ML)** Stiff, moist, brown Very silty	26 27	14.8 14.3	118 34	
4						**SILTY CLAY (CL)** Very stiff, moist, dark gray-brown with light brown mottling				
5	4	20*				**SILTY CLAY (CL)** Medium, light tan-brown with some brown mottling, with some calcareous nodules	25	15.6	319	
6	5	11*					28	14.9	71	
7 8	6	10*				**SILTY CLAY (CL)** Medium, moist, dark blue gray Becomes siltier	23	16.2	79	
9 10	7	21*				**VERY FINE SANDY SILT (ML)** Medium dense, dark gray, trace clay Becomes sandier				
11	8	16*				**SILTY CLAY (CL)** Medium, moist, gray	22	16.3	62	
12 13	9	10*				With trace sand and some 13 mm				
14	10	17*					27	15.1	83	
15						**SILTY CLAY (CL) to CLAYEY SILT (ML)** Stiff, moist, brown, with some sand				

Station: 14+696 (meters) Offset: 34 (meters:positive = east) (597931.86/1873134.67)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-55

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	46*				Sandier				
16										
						SANDY SILT (ML) to SILTY SAND (SM) Medium dense, brown with gray mottling				
17	12	28*								
18						**GRAVELLY SAND (SM)** Very dense, brown and dark gray, gravels to 13 mm				
	13	89								
19										
20	14	81								
21										
	15	80				Gravels to 38 mm				
22										
						SILTY CLAY (CL) Medium, dark gray, with rounded gravel to 19 mm				
23	16	43*								
						SILTY CLAY (CL) Very stiff, olive gray with brown mottling				
24										
	17	41*					22	16.3	224	
25						BOTTOM OF BORING AT 24.8 METERS				
26										
27										
28										
29										
30										
31										

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 2 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT Santa Clara County, California	Log of Boring: SJIA-8

Date Drilled: 1/25/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Surface Elevation: 11.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						ASPHALT PAVEMENT				
						SILTY SAND (SM) Loose, damp, brown				
1	1	8								
						SILTY CLAY (CH) Stiff, moist, dark gray				
2										
	2	9				18 HOURS ▼	35	12.7	129	
3										
						SILTY CLAY (CL) Stiff, light brown-gray				
4	3	6					23	15.9	103	
						GRAVELLY SAND (SW) Dense, brown				
5										
	4	35								
6										
7	5	48								+#4=46% -#200=5%
8										
	6	29								
9						**CLAYEY SILT (CL-ML)** Stiff, gray, with fine sand				
10	7	16					20	16.5	99	
11						**SANDY CLAY (CL)** Stiff, gray				
	8	13				**CLAYEY SAND (SC)** Medium dense, gray				
12						**SILTY CLAY (CL)** Medium, gray, with trace of fine sand and organic material				
13	9	17					22	16.0	49	
14										
	10	36				**SILTY CLAY (CL)** Stiff to very stiff, light brown with	26	15.6	193	
15										

Station: 15+263 (meters) Offset: -106 (meters:positive=east) (597500.77/1873456.15)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SJIA-8

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						interbedded layers of Clayey Silt (ML-CL) and fine sand and gravel				
						GRAVELLY SAND (SW-SM) Dense, brown				
16	11	39								
17										
	12	73				Very dense				
18										
19	13	50								
20										
	14	56				**SAND (SP)** Very dense, brown, medium grained				
21										
						SILTY CLAY (CL) Very stiff, brown				
22	15	41				Becoming gray	20	17.0	277	
23										
						BOTTOM OF BORING AT 23.5 METERS				
24										
25										
26										
27										
28										
29										
30										
31										

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 2 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-S1

Date Drilled: 9/16/85

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Surface Elevation: 12.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	14				**SANDY CLAY (CL)** Very stiff, damp, brown, with traces of burnt wood fragments	9	17.3	309	
1						Becoming stiff, damp to moist, with interbeds of Sandy Silt (ML-SM)				
	2	13					14	15.4	146	
2										
	3	26								
3						**SILTY CLAY (CL)** Hard, moist, dark gray-brown, with traces of roots	21	15.6	538	
4	4	14				**SANDY CLAY (CL)** Stiff, moist, gray and orange-brown mottled	20	15.7	135	
	5	7								
5						**CLAYEY SILT (ML-CL)** Medium to stiff, moist, gray, with sand ∇	26	14.9	51	
	6	13					24	15.9	109	
6						BOTTOM OF BORING AT 5.9 METERS				
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 15+435 (meters) Offset: -47 (meters:positive=east) (597392.74/1873601.35)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-S10

Date Drilled: 9/16/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 8.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	1	26				**SILTY CLAY (CL) FILL** Well compacted, dry to damp, brown and gray, with traces of sand and gravel	12	16.5	549	
	2	21				FILL				
2						**SILTY CLAY (CL-CH)** Very stiff, moist, dark gray-brown, with some sand	18	16.3	463	
3	3	7				**SANDY CLAY (SC-CL)** Medium, moist, gray with some rust mottling	19	16.3	68	
4	4	15				**GRAVELLY SAND (SW)** Medium dense, brown and gray				+#4=37% -#200=3%
5	5	12								
6	6	15				**SILTY SAND (SM-SP)** Medium dense, brown and gray, with gravel				
7						BOTTOM OF BORING AT 6.3 METERS				
8										
9										
10										
11										
12										
13										
14										
15										

Station: 14+046 (meters)
Offset: -85 (meters:positive=east)
(598349.81/1872787.63)

Project: 95-973017NB.00
URS Greiner Woodward Clyde
Sheet 1 of 1
Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-S11

Date Drilled: 9/16/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 8.5 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	50				**SILTY CLAY (CL) FILL** Well compacted, dry, brown and light brown mottled, with sand and gravel and traces of asphalt	9	17.3	570	
1	2	30								
2	3	24				**CLAYEY SILT (ML-CL) FILL** Well compacted, damp to moist, brown, with some fine sand and scattered gravel	10	17.1	492	
3	4	13				Moderately compacted, with interbeds of Sandy Silt (ML)	15	15.9	115	
4						∇				
5	5	7				**SILTY SAND (SM) FILL** Poorly compacted to uncompacted, brown with gray clayey seams and scattered fine gravel. Also contains fragments of concrete, wood and glass FILL				+#4=8% -#200=13%
6	6	26				**SAND (SW-SM)** Medium dense, dark gray, with fine gravel				
7						BOTTOM OF BORING AT 6.6 METERS				
8										
9										
10										
11										
12										
13										
14										
15										

Station: 13+982 (meters) Offset: -46 (meters:positive=east) (598419.57/1872755.33)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-S12

Date Drilled: 9/16/85

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Type of Boring: 203 mm Hollow Stem Auger

Hammer/drop: 623 N/760 mm

Surface Elevation: 9.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	57			▨	**SILTY CLAY (CL) FILL** Well compacted, damp, brown, with sand	11	18.4	887	
1					▨	FILL				
					▨	**SANDY CLAY (CL)** Very stiff, damp, gray-brown mottled	10	18.2	395	
2	2	17			▨	With interbeds of Sandy Silt (ML-SM)				
3	3	25			▨		16	16.3	153	
4	4	11			●	**CLAYEY SAND (SC-CL)** Medium dense, damp to moist, brown with some rust mottling, with gravel	12	18.2	112	
5	5	11			▨	**SILTY CLAY (CL-ML)** Soft to medium, moist, to wet, dark gray, with some fine sand	27	14.8	42	
6	6	8			▨					
7						BOTTOM OF BORING AT 6.6 METERS				
8										
9										
10										
11										
12										
13										
14										
15										

Station: 13+936 (meters)

Offset: -32 (meters:positive=east)

(598464.12/1872726.38)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-S2

Date Drilled: 9/16/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 12.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	17			▨	**SILTY CLAY (CL) FILL** Well compacted, damp, brown, with sand and gravel (FILL)	12	17.7	629	
1	2	12			⁙	**SILTY SAND (SM)** Medium dense, moist, brown and gray, with some clay seams				-#200=47%
2	3	47			▨	**SILTY CLAY (CL)** Stiff, moist, dark gray-brown with some orange mottling, with calcareous nodules	27	14.3	177	
3					▨					
	4	20			▨	**SANDY CLAY (CL)** Medium, moist, light brown-gray with some rust mottling	20	15.1	139	
4					▨					
	5	10			▨	∇	23	15.7	53	
5					▨					
6	6	67			⁙	**GRAVELLY SAND (SP)** Very dense, brown and gray BOTTOM OF BORING AT 6.3 METERS				
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 15+260 (meters)   Offset: -52 (meters:positive=east)   (597534.37/1873499.32)

Project: 95-973017NB.00   **URS Greiner Woodward Clyde**   Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-S3

Date Drilled: 9/16/85
Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm
Surface Elevation: 11.6 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	32				**SILTY CLAY (CL)** Hard, damp, gray, with calcareous nodules	10	17.9	484	
	2	25				**CLAYEY SILT (CL-ML)** Hard, damp to moist, brown, with sand	9	17.7	589	
	3	27				**SILTY CLAY (CL-CH)** Very stiff, moist, dark gray to black	25	14.9	309	
	4	9				**SILTY CLAY (CL)** Medium, moist, light brown-gray with some rust mottling	22	15.2	91	
						∇				
	5	8					26	15.2	72	

BOTTOM OF BORING AT 5.9 METERS

Station: 14+731 (meters) Offset: -51 (meters:positive=east) (597850.20/1873092.73)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SJIA-S4

Date Drilled: 9/16/85
Type of Boring: 203 mm Hollow Stem Auger
Hammer/drop: 623 N/760 mm

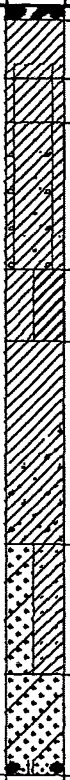
Remarks: From 16171V - SAN JOSE AIRPORT EXPANSION

Surface Elevation: 10.4 meters (approx.)

Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	28			19	16.2	301	
2	10			12	16.5	357	
3	18			20	15.2	99	
4	26			18	17.3	387	
5	17			22	15.9	102	
6	17						
7	26						

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Graphic Log



MATERIAL DESCRIPTION

ROCK BASE

SILTY CLAY (CL) FILL
Moderately compacted, moist, dark gray, with traces of charcoal
Clayey Silt (CL-ML) lens - brown, with sand

SILTY CLAY (ML-CL) FILL
Moderately compacted, moist, light brown-gray
(FILL)

CLAYEY SILT (ML-CL)
Very stiff, damp, brown, with sand and traces of fine gravel

SILTY CLAY (CL-CH)
Medium, moist, dark gray-brown

SILTY CLAY (CL)
Very stiff, moist, light brown-gray ▽
Becoming stiff, sandy, gray-brown mottled

SANDY CLAY (CL-SC)
Stiff, light gray-brown

CLAYEY SAND (SC)
Medium dense, gray

With gravel (SM-SP)

BOTTOM OF BORING AT 8.1 METERS

Station: 14+595 (meters) Offset: -89 (meters:positive=east) (598017.80/1872994.25)

Project: 95-973017NB.00 | URS Greiner Woodward Clyde | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-1

Date Drilled: 1/6/76
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76

Surface Elevation: 7.9 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILT (ML) Brown, fine, sandy, dry to damp				Top of Levee
1										
	1	77				Grading moist, very dense	15	16.7		
2						1/22/76 ▼				
	2	48				Medium dense	14	17.7		
3										
4										
	3	32				**CLAY (CH)** Dark brown, silty, moist, very stiff	16	16.8		
5										
	4	42				Grading with more silt (CL) ∇				
6										LL=49 PI=24
7										
	5	24				Grading with fine sand Medium dense	24	17.7		
8										
						SAND (SP) Brown, fine to medium, moist, medium dense				
		22								
9										No recovery
		25								
										~~No recovery~~
10						BOTTOM OF BORING AT 9.6 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.				
11										
12										
13										
14										
15										

Station: 11+981 (meters) Offset: 38 (meters:positive=east) (600246.64/1872532.11)

Project: 95-973017NB.00 URS Greiner Woodward Clyde Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-10

Date Drilled: 1/7/76

Type of Boring: 152 mm Continuous Flight Auger

Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76

Surface Elevation: 6.7 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SILT (ML) Brown, fine sandy, damp				Orchard
1						**CLAY (CL)** Gray, silty, moist				
2										
3						BOTTOM OF BORING AT 3.0 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.				
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 13+157 (meters)

Offset: 84 (meters:positive=east)

(599156.07/1872938.59)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-2

Date Drilled: 1/6/76
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76
Surface Elevation: 5.8 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SAND (SM) Dark brown, silty, moist, dense				Edge of Cultivated Field
	1	48					14	16.7		
						1/22/76 ▼				
						SAND (SP) Dark brown to black, silty, moist, medium dense				
	2	19					14	18.2		
		14								
						CLAY (OH) Dark brown, organic, silty, moist				
	3						30	16.0		
	4	24				Very stiff	28	17.0		
						BOTTOM OF BORING AT 6.1 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.				

Station: 12+118 (meters) Offset: 48 (meters:positive=east) (600104.16/1872560.71)

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 1 of 1 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-3

Date Drilled: 1/6/76
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76
Surface Elevation: 6.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SAND (SM) Brown, silty, moist, medium dense				Edge of Orchard
	1	21				▼ 1/22/76	7	16.7		
	2	18				**SILT (ML)** Dark brown, fine sandy, moist, medium dense	35	13.5		
	3	25				**CLAY (CL)** Brown, silty, organic, moist, very stiff ▽	20	19.0		
6	4	58				**SAND (SP)** Brown, fine to medium, moist, very dense	15			

BOTTOM OF BORING AT 6.1 METERS
NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.

Station: 12+525 (meters) Offset: 70 (meters:positive=east) (599737.40/1872641.12)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

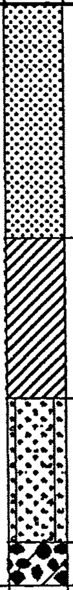
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-4

Date Drilled: 1/6/76
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76

Surface Elevation: 6.1 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SAND (SP) Dark brown, moist, medium dense				Edge of Cultivated Field
1										
	1	19					6	17.0		
2										
						CLAY (CH) Dark brown, moist, stiff				
3	2	12				1/15/76 ▼	22	16.8		
4										
						SAND (SM) Brown, silty, moist, very dense				
	3	62				▽	18	19.5		
5										
						GRAVEL (GC) Brown, fine, moist, dense				
6	4	32					9			
7						BOTTOM OF BORING AT 6.1 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.				
8										
9										
10										
11										
12										
13										
14										
15										

Station: 12+875 (meters) Offset: 85 (meters:positive=east) (599482.24/1872881.50)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-5

Date Drilled: 1/6/76
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76
Surface Elevation: 6.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					▨	**CLAY (CL)** Dark brown, silty, fine sand, moist				Orchard
1					▨					
	1	42			▨	Hard	25	13.4		
2					▨					
3	2	22			▨	Grading with more silt 1/22/76 ▼ ▽	41	12.7		
4					▨	**CLAY (CH)** Gray, silty, moist, very stiff				
	3	24			▨					LL=44 PI=18
5					▨					
					⁙	**SAND (SC)** Gray, clayey, fine, moist, medium dense				
6	4	14			⁙		24			
						BOTTOM OF BORING AT 6.1 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.				
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 13+132 (meters) Offset: 81 (meters:positive=east) (599190.99/1872937.92)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

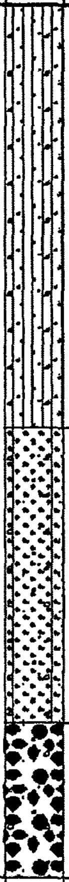
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-6

Date Drilled: 1/6/76
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76

Surface Elevation: 8.5 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					SILT (ML) Dark brown, fine sandy, damp, very dense				Top of Levee
1									
	1	90				14	18.7		
2									
3	2	21			Medium dense				
					1/22/76 ▽				
4									
	3	39			**SILT (SM)** Gray, fine sandy, moist, dense	9	18.2		
5									
6	4	20			▽	27	15.2		
7									
	5	42			**GRAVEL (GP)** Brown, fine sandy, wet, dense	30 18	14.1 16.8		
8									
9	6	48			BOTTOM OF BORING AT 9.1 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.	8			
10									
11									
12									
13									
14									
15									

Station: 13+359 (meters) Offset: 42 (meters:positive=east) (598970.24/1872782.78)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-7

Date Drilled: 1/7/76
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76
Surface Elevation: 6.1 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1					▦	**SILT (ML)** Brown, fine sandy, damp				Side of Access Road
2 3					▨	**CLAY (CH)** Brown, silty, moist				
4 5 6 7 8 9 10 11 12 13 14 15						BOTTOM OF BORING AT 3.0 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.				

Station: 12+485 (meters) Offset: 92 (meters:positive=east) (599832.93/1872627.32)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 1 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-8

Date Drilled: 1/7/76
Type of Boring: 152 mm Continuous Flight Auger
Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76

Surface Elevation: 6.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					░	**SAND (SP)** Dark brown, silty fine, damp				Access Road
1					░	Grading to more sand				
2					░					
3					▨	**CLAY (CL)** Brown, silty, moist BOTTOM OF BORING AT 3.0 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.				
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 12+720 (meters)   Offset: 86 (meters:positive=east)   (599620.31/1872759.57)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRR-9

Date Drilled: 1/7/76

Type of Boring: 152 mm Continuous Flight Auger

Hammer/drop: 623 N/760 mm (D&M 61 mm I.D.)

Remarks: From "Report, Soils Investigation, for Guadalupe River SPPR to Trimble Rd. Project #3015", Job #2706, Jo Crosby & Associates, 01/76

Surface Elevation: 6.4 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1					▥	**SILT (ML)** Brown, fine sandy, damp Grading with more clay				Access Road
2					▨	**CLAY (CL)** Dark brown, silty, moist				
3						BOTTOM OF BORING AT 3.0 METERS NOTE: Sample penetration not recorded in reference report. Sample symbol indicates tested specimen from sample.				
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Station: 12+703 (meters)

Offset: 47 (meters:positive=east)

(599601.56/1872721.87)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT Santa Clara County, California	Log of Boring: SPRRB-R1

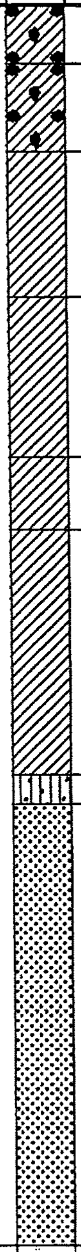
Date Drilled: 11/10/60

Remarks: From 4246 - PROPOSED SPRR BRIDGE - ALVISO 1/9/61

Type of Boring: 152 mm Power Auger

Hammer/drop: 623 N

Surface Elevation: 1.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						**CLAY and ROCK FRAGMENTS - FILL** Medium dense, dark red brown				
						▽				
						CLAY and ROCK FRAGMENTS - FILL Firm, dark gray FILL				
1	R1-1	4								
						SILTY CLAY Firm to stiff, gray				
2										
	R1-2	16					31	14.3	125	
3						**SILTY CLAY** Very stiff, brown-gray				
4	R1-3	30								
5						**SILTY CLAY** Firm to stiff, yellow-brown				
	R1-4	17				**SILTY CLAY** Very stiff, brown-gray				
6							28	15.2	340	
7	R1-5	14								
							34	14.0	152	
8						**FINE SANDY SILT** Loose, gray				
						FINE SAND Loose to medium dense, dark gray				
9	R1-6	20								
10										
11										
12										
13						BOTTOM OF BORING AT 13.0 METERS				
14										
15										

Station: 6+987 (meters)

Offset: 92 (meters:positive=east)

(603552.07/1869248.33)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRRB-R2

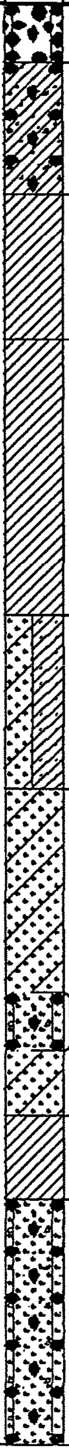
Date Drilled: 11/16/60

Type of Boring: 152 mm Power Auger

Hammer/drop: 623 N

Remarks: From 4246 - PROPOSED SPRR BRIDGE - ALVISO 1/9/61

Surface Elevation: 2.9 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					ROCK FRAGMENTS with SILT - FILL Medium dense, brown				
					SANDY CLAY and ROCK FRAGMENTS - FILL Medium dense to loose, green-gray				
1									
	R2-1	5							
2					FILL				
					SILTY CLAY Soft, black, organic				
3									
	R2-2	2							
					SILTY CLAY Soft, dark gray				
4									
5	R2-3	3							LL=25 PI=4
6	R2-4	7							
					SILTY CLAY to FINE SANDY CLAY Firm, dark green-gray				
7									
						24	15.7	56	
8									
					FINE CLAYEY SAND Loose, dark gray				
9									
	R2-5	3							
10									
					SILTY SAND with fine gravel				
11	R2-6	8				29	14.9		
					SILTY CLAY Firm to stiff, dark green-gray				
12									
					SILTY SAND with FINE GRAVEL Medium dense, dark green-gray				
13									
14	R2-7	26							
					SILTY SAND with FINE GRAVEL...continued				
15									

Station: 7+006 (meters)

Offset: 19 (meters:positive=east)

(603476.77/1869252.27)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SPRRB-R2

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
16										
17	R2-8 ▨	30								
18						**FINE CLAYEY SAND** Medium dense, dark gray				
19						**SILTY SAND with FINE GRAVEL** Dense, dark green-gray				
20										
21										
22						BOTTOM OF BORING AT 22.3 METERS				
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT Santa Clara County, California	Log of Boring: SPRRB-R3

Date Drilled: 12/3/60 Remarks: From 4246 - PROPOSED SPRR BRIDGE - ALVISO 1/9/61
Type of Boring: 152 mm Power Auger
Hammer/drop: 623 N Surface Elevation: 2.7 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						SANDY CLAY and ROCK FRAGMENTS - FILL Medium dense to dense, brown				
1										
2										
3						FILL				
						SILTY CLAY Soft, dark gray to black				
4										
	R3-1	3					57	10.2	66	
5										
	R3-2	2								
6						**SILTY CLAY with PEAT** Soft, dark brown-gray				
7										
	R3-3	3					52	12.6	36	
						SILTY CLAY Firm, dark gray				
8										
						SILTY CLAY Stiff, brown-gray				
9	R3-4	18					34	13.8	173	
						SILTY CLAY Stiff, dark green-gray				
10										
	R3-5	16					32	14.1	194	
11										
12	R3-6	12					29	14.0	68	
						SILTY SAND Loose to medium dense, dark gray				
13										
	R3-7	18					23	16.2	39	
14						**SILTY SAND with FINE GRAVEL** Dense, brown-gray				
15										

Station: 7+015 (meters) Offset: -24 (meters:positive=east) (603433.37/1869253.67)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: SPRRB-R3
(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	R3-8	45								
16	R3-9	70								
17						BOTTOM OF BORING AT 16.5 METERS				
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

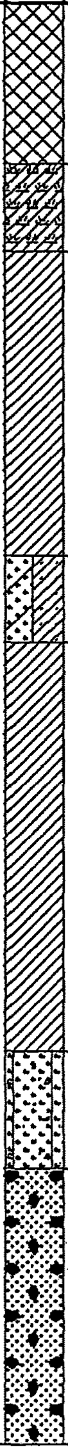
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRRB-R4

Date Drilled: 11/15/60
Type of Boring: 152 mm Power Auger
Hammer/drop: 623 N

Remarks: From 4246 - PROPOSED SPRR BRIDGE - ALVISO 1/9/61

Surface Elevation: 2.5 meters (approx.)



Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
				MISCELLANEOUS FILL Loose				
				FILL				
				SILTY CLAY and PEAT Soft, dark gray to black				
				SILTY CLAY Stiff, dark gray to brown-gray				
R4-1	3				35	13.4	66	
R4-2	15				18	17.6	298	
				FINE SANDY CLAY to CLAYEY SAND Firm to stiff, brown				
				SILTY CLAY Firm to stiff, gray-brown, with Clayey Sand lenses				
R4-3	15				19	17.6	116	
R4-4	15							
				SILTY SAND Medium dense, gray				
				SAND with FINE GRAVEL Dense, gray				
R4-5	35							
				SAND with FINE GRAVEL...continued				

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 7+033 (meters)   Offset: -85 (meters:positive = east)   (603369.61/1869259.08)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT | **Log of Boring: SPRRB-R4**

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
16										
17										
18										
19										
20										
21						BOTTOM OF BORING AT 20.4 METERS				
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Project: 95-973017NB.00 | **URS Greiner Woodward Clyde** | Sheet 2 of 2 | Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRRB-R5

Date Drilled: 12/2/60
Type of Boring: 152 mm Power Auger
Hammer/drop: 623 N

Remarks: From 4246 - PROPOSED SPRR BRIDGE - ALVISO 1/9/61
Surface Elevation: 3.2 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						MISCELLANEOUS FILL Loose FILL				
						ORGANIC CLAYEY SILT Loose, black				
	R5-1	9				**SILTY CLAY** Stiff, dark gray-brown	29	14.5	120	
						SILTY CLAY to SANDY CLAY Stiff, yellow-brown				
	R5-2	14					25	15.7	78	
						CLAYEY SANDY SILT Loose, yellow-brown, with Silty Sand lenses				
	R5-3	4					29	15.4	27	
	R5-4	4								
						SILTY CLAY Stiff, brown				
						SILTY CLAY Stiff, dark gray				
	R5-5	12					33	14.1	83	
	R5-6	50				**SAND and GRAVEL** Dense, dark gray				
						BOTTOM OF BORING AT 14.3 METERS				

Station: 7+080 (meters) Offset: -263 (meters:positive=east) (603185.75/1869270.15)

Project: 95-973017NB.00	**URS Greiner Woodward Clyde**	Sheet 1 of 1	Fig.

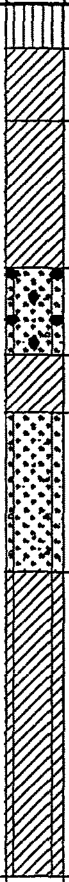
LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRRB-R6

Date Drilled: 12/1/60
Type of Boring: 152 mm Power Auger
Hammer/drop: 623 N

Remarks: From 4246 - PROPOSED SPRR BRIDGE - ALVISO 1/9/61

Surface Elevation: 0.7 meters (approx.)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					CLAYEY SILT Loose, black, organic				
1	R6-1	push			**SILTY CLAY** Soft, dark gray	79	8.3	18	
2	R6-2	4			**SILTY CLAY** Stiff, gray-brown				
3					**SILTY SAND and FINE GRAVEL** Medium dense, gray-brown				
4	R6-3	6			**SILTY CLAY** Firm, yellow-brown	26	15.6	75	
5					**FINE SILTY SAND** Medium dense to dense, gray-brown				
6					**SILTY CLAY to CLAYEY SILT** Stiff, gray-brown				
7	R6-4	7							
8									
9	R6-5	7							
10					BOTTOM OF BORING AT 9.1 METERS				
11									
12									
13									
14									
15									

Station: 7+311 (meters)
Offset: -518 (meters:positive = east)
(602891.22/1869447.70)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: SPRRB-R7

Date Drilled: 11/14/60
Type of Boring: 152 mm Power Auger
Hammer/drop: 623 N

Remarks: From 4246 - PROPOSED SPRR BRIDGE - ALVISO 1/9/61

Surface Elevation: 2.0 meters (approx.)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					●	**ROCK FRAGMENTS with SILTY CLAY - FILL** Medium dense FILL				
	R7-1	2			▨	**FINE CLAYEY SAND** Very loose, dark gray				
	R7-2	3			▨	**SILTY CLAY** Very soft, dark gray to black, organic	63	9.6	27	
					▨	**SILTY CLAY** Stiff, brown-gray				
	R7-3	11			▨	**SANDY SILTY CLAY and SILTY SAND LAYERS** Stiff, green-gray to brown				
	R7-4	20			▨	**SILTY CLAY** Firm to stiff, gray-brown	25	15.9	244	
	R7-5	9			▨	**SILTY CLAY to CLAYEY SILT** Firm to stiff, brown				

BOTTOM OF BORING AT 9.1 METERS

Station: 7+043 (meters)   Offset: -158 (meters:positive=east)   (603296.11/1869254.91)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

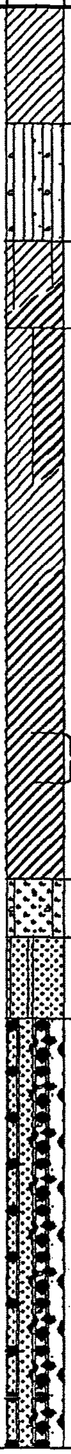
Sheet 1 of 1   Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: TDB-1

Date Drilled: 5/23/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm; * = 1621 N/460 mm; ** = 426 N/460 mm Surface Elevation: 1.5 meters (approx.)

Remarks: From 16266V - GUADALUPE RIVER LRT BRIDGE AT TASMAN DRIVE



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	21			**SILTY CLAY (CL)** Very stiff, damp, dark brown	18	15.6	273	
1									
	2	3			**CLAYEY SILT (ML)** Soft, moist, dark brown, with sand	24	14.0	45	
2					▼ 5/29/84				
3	3	5			**SILTY CLAY (CL-ML)** Soft, moist, gray and brown mottled, becoming more plastic (CH) with traces of organic matter below 3.0 meters	32	13.4	45	LL=50 PI=27
4					**SILTY CLAY (CL-CH)** Medium, gray, with occasional sand lenses and interbeds				
5	4	10			More silty (CL)	29	14.8	59	LL=48 PI=26
6									
	5	4			Becoming more plastic (CH), soft, with sand lenses	46	11.3	23	LL=72 PI=46
7									
8	6	6			Interbeds of loose sand (SM-SC)	41	12.1	23	
9									
	7	13			**SILTY SAND (SM)** Medium dense, gray				
10	8	69			**SAND (SP-SM)** Very dense, brown and gray, with scattered fine gravel				+#4=2% -#200=10%
11					**GRAVELLY SAND (SP-SM) to SANDY GRAVEL (GP-GM)** Dense, brown and gray				
12	9	39			Clay lens				
13									
	10	31							+#4=42% -#200=6%
14									
15					**GRAVELLY SAND (SP-SM) to SANDY GRAVEL (GP-GM)...continued**				

Station: 9+249 (meters)   Offset: -80 (meters:positive=east)   (601919.78/1870690.08)

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: TDB-1

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	64								
						BOTTOM OF BORING AT 15.2 METERS				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 2 of 2

Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

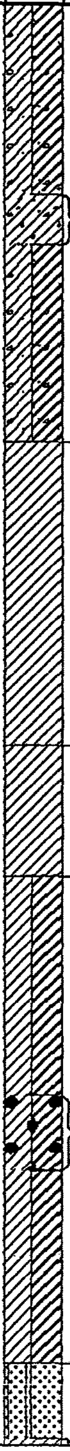
Log of Boring: TDB-2

Date Drilled: 5/23/84

Type of Boring: 124 mm Rotary Wash

Remarks: From 16266V - GUADALUPE RIVER LRT BRIDGE AT TASMAN DRIVE

Hammer/drop: 623 N/760 mm; * = 1621 N/460 mm; ** = 426 N/460 mm Surface Elevation: 5.6 meters (approx.)



Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
1	18			**SILTY CLAY (CL-CH) FILL** Moderately to well compacted, moist, dark brown and gray brown mottled, with sand	19	16.8	182	
2	31			← Well compacted	19	16.8	299	
				Becoming more sandy (CL), dark brown with some gray mottling				
3	24				21	16.3	254	
				FILL				
4	18			**SILTY CLAY (CL)** Stiff, moist, brown with traces of roots and gravel	24	14.8	106	
				5/29/84				
5	7			Medium				
6	9							
7								
				SILTY CLAY (CL) Soft to medium, dark gray with some brown mottling, with traces of organic matter	30	14.3	76	
8	15							
9	20				36	13.7	45	
				SILTY CLAY (CL-CH) Soft, gray, with interbeds of Silty Sand (SM)				
10	7				30	14.1	29	
				With gravel and wood fragments				
11	5				44	11.6	39	
12	7							
				SAND (SP-SM) Dense, gray				

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 9+247 (meters) Offset: -47 (meters:positive=east) (601947.86/1870706.33)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: TDB-2

(continued)

Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
						Clay lens				
	13	51				With scattered gravel, brown and gray	18	16.2		+#4=1% -#200=7%
16						**GRAVELLY SAND (SP-SM) to SANDY GRAVEL (GP-GM)** Dense, gray and brown				
17	14	21				SILTY SAND (SM) Medium dense, gray				+#4=0 -#200=45%
18										
	15	89								
19										
						SILTY CLAY (CL) Medium, brown with some gray mottling				
20	16	16					22	16.3	85	
21										
	17	19				Becoming more silty	25	15.6	80	
22										
						SANDY CLAY (CL-SC) Stiff, brown and gray mottled				
23	18	22				Very sandy (SC)				
24										
	19	29				With some gravel				
25						**SILTY CLAY (CL)** Stiff, gray brown mottled				
26	20	22					25	15.6	103	
27						With interbeds of loose sand (SP-SM)				
	21	14*								
28										
29	22	14*								
30						**SILTY CLAY (CL)...continued**				
	23	21*								
31						BOTTOM OF BORING AT 30.9 METERS				

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

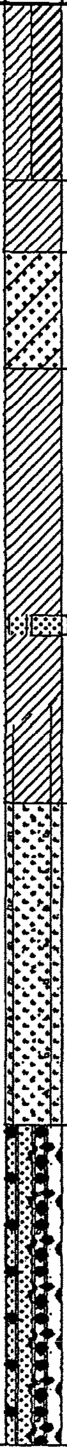
Log of Boring: TDB-3

Date Drilled: 5/25/84

Type of Boring: 124 mm Rotary Wash

Hammer/drop: 623 N/760 mm; * =1621 N/460 mm; ** =426 N/460 mm Surface Elevation: 1.2 meters (approx.)

Remarks: From 16266V - GUADALUPE RIVER LRT BRIDGE AT TASMAN DRIVE



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
					SILTY CLAY (CL-CH) FILL Moderately compacted, damp, dark brown with some brick fragments, gravel, and traces of burnt wood				
	1	10*				16	13.4	324	
1									
	2	8*							
	3	21			FILL				
2					**SILTY CLAY (CL)** Very stiff, damp, gray brown mottled with orange streaks	18	16.2	310	
						13	18.2	484	
					CLAYEY SAND (SC) Loose, wet, brown ▼ 5/29/84				
3									
	4	4				21	16.2	42	+#4=0 -#200=47%
4					**SILTY CLAY (CL)** Stiff, gray brown mottled				
5	5	13				33	13.7	105	
6									
	6	6			Sand lens (SM-SP)	27	15.2	48	
7									
					Grading to Clayey Silt (ML-CL), medium, gray with brown mottling				
8	7	17				26	15.6	63	
					SILTY SAND (SM) Dense, brown and gray, with lenses of Clayey Silt (ML-CL)				
9									
	8	46				22	15.7		
10									
					Very dense, with scattered fine gravel				
11	9	78				21	17.7		+#4=5% -#200=13%
12					**GRAVELLY SAND (SP-SM) to SANDY GRAVEL (GP-GM)** Dense, brown and gray				
	10	46							
13									
14	11	56							
									+#4=37% -#200=8%
					GRAVELLY SAND (SP-SM) to SANDY GRAVEL (GP-GM)...continued				
15									

Station: 9+250 (meters) Offset: 86 (meters:positive=east) (602055.00/1870786.20)

Project: 95-973017NB.00 **URS Greiner Woodward Clyde** Sheet 1 of 2 Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: TDB-3

(continued)

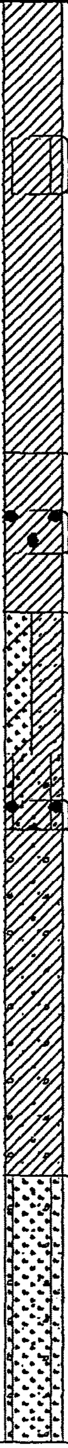
Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	Graphic Log	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	12	74								
16						BOTTOM OF BORING AT 15.7 METERS				
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

Log of Boring: TDB-4

Date Drilled: 5/25/84
Type of Boring: 124 mm Rotary Wash
Hammer/drop: 623 N/760 mm; * =1621 N/460 mm; ** =426 N/460 mm
Surface Elevation: 5.6 meters (approx.)

Remarks: From 16266V - GUADALUPE RIVER LRT BRIDGE AT TASMAN DRIVE



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	1	21			**SILTY CLAY (CL) FILL** Well compacted, moist, dark brown, with traces of gravel	21	16.2	221	
1									
	2	36				16	18.2	363	
					More silty (CL-ML), brown	15	18.1		
2									
3									
	3	34			Gray brown with some olive mottling	17	16.8	311	
4									
					Nail 5/29/84				
5					**SILTY CLAY (CL)** Stiff, dark brown	28 29	14.1 14.1	56 106	
					With some gravel				
6									
	5	22			**SANDY CLAY (CL-SC)** Very stiff, brown and gray mottled	14	18.4	340	
7									
	6	12			More silty (CL-ML), soft	22	16.0	40	
8									
					With gravel				
					SILTY CLAY (CL) Medium, brown with some gray mottling, with some pebbly sand				
9									
	7	10				31	14.3	74	
10									
					Stiff				
11	8	12				26	15.1	108	
12									
	9	17*			**SILTY SAND (SM)** Dense to very dense, brown and gray				
	10	79							
13						21	16.5		+#4=0 -#200=17%
14	4	20							
					SILTY SAND (SM)...continued				
15									

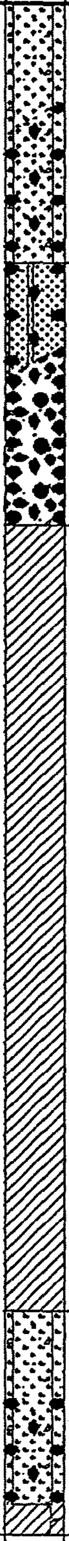
Station: 9+242 (meters) Offset: 41 (meters:positive=east) (602022.43/1870754.26)

Project: 95-973017NB.00	URS Greiner Woodward Clyde	Sheet 1 of 2	Fig.

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT

Log of Boring: TDB-4

(continued)



Depth, Meters	Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
	11	65				23	15.6		+#4=0 -#200=13%
16					Grading cleaner, with some coarse sand and fine gravel				
17	12	64							
18					**GRAVELLY SAND (SP-SM)** Very dense, brown and gray				
	13	95				10	19.2		+#4=28% -#200=6%
19					Grading to Sandy Gravel (GP)				
20	14	72/ 230 mm							
21					**SILTY CLAY (CL)** Stiff, light gray brown with some coarse gravel				
	15	16*							
22						30	14.5	133	
23	16	36*			Very stiff, gray and brown mottled	25	15.7	288	
24									
	17	22*							
25					Becoming more silty, stiff	22	16.3	103	
26	18	17*				25	15.6	127	
27									
28	19	20*				27	15.1	193	
29					**SILTY SAND (SM)** Dense to very dense, brown and gray				
	20	33*							
30					Gravelly				
					SILTY SAND (SM)...continued Clay lens				
	21	14*							
31					BOTTOM OF BORING AT 30.9 METERS				

LOWER GUADALUPE RIVER FLOOD CONTROL PROJECT
Santa Clara County, California

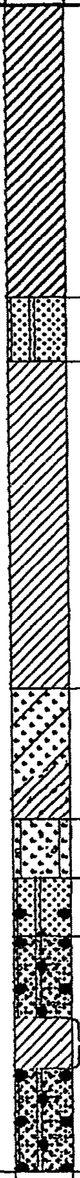
Log of Boring: TDB-5

Date Drilled: 12/4/84

Type of Boring: 124 mm Rotary Wash

Hammer/drop: 623 N/760 mm; * =1621 N/460 mm; ** =426 N/460 mm Surface Elevation: 1.5 meters (approx.)

Remarks: From 16266V - GUADALUPE RIVER LRT BRIDGE AT TASMAN DRIVE



Samples	Blows/0.3m	Pocket Pen. (kPa)	Torvane (kPa)	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, kN/m3	Unconfined Compressive Strength, kPa	Other Tests/ Remarks
				SILTY CLAY (CH) Very soft, dark gray, with roots and organic matter				
1	0				97	7.1	9	
				(Recent Channel Deposit)				
2	0				109	6.4	2	
3	4**			**SILTY SAND (SP-SM)** Loose, dark gray with traces of shell	29	14.8		+#4=0 -#200=11%
				SILTY CLAY (CL) Soft to medium, gray, with lenses of Sand (SM) and traces of roots				
4	14**				22	16.5	63	
5	8**				25	16.0	27	
				CLAYEY SAND (SC) Loose, dark gray, with clay lenses				
6	10**			Grades to Sandy Clay (CL), soft	38	12.7		+#4=0 -#200=40%
				SILTY SAND (SM) Medium dense, gray				
7	24**			**SILTY SAND (SM-SP)** Medium dense, dark gray, with gravel to 13 mm in diameter	20	16.3		
				GRAVELLY SAND (SW-SM) Dense, gray				
8	50/ 230 mm **			Clay lens				
				BOTTOM OF BORING AT 12.2 METERS				

Depth, Meters: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Station: 9+247 (meters) Offset: 11 (meters:positive=east) (601995.36/1870740.64)

Project: 95-973017NB.00

URS Greiner Woodward Clyde

Sheet 1 of 1 Fig.